

Applicant's or agent's file
reference number

PA101PCT

International application No.

UNASSIGNED

INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>100</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 16 July 1998	Accession Number 203067
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

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ATCC Deposit No.: 203067

CANADA

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

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AUSTRALIA

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FINLAND

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UNITED KINGDOM

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ATCC Deposit No.: 203067

DENMARK

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SWEDEN

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NETHERLANDS

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Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 16 July 1998	Accession Number 203068
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Authorized officer Sonya D. Barnes PCT/Internat'l Appl Processing Div (703) 305-3665	Authorized officer

ATCC Deposit No.: 203068**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

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FINLAND

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UNITED KINGDOM

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SWEDEN

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NETHERLANDS

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Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 01 February 1999	Accession Number 203609
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
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ATCC Deposit No.: 203609

CANADA

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NORWAY

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AUSTRALIA

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FINLAND

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UNITED KINGDOM

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ATCC Deposit No.: 203609**DENMARK**

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SWEDEN

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NETHERLANDS

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Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 01 February 1999	Accession Number 203610
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D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
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ATCC Deposit No.: 203610

CANADA

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UNITED KINGDOM

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Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 17 November 1998	Accession Number 203485
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ATCC Deposit No.: 203485

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Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 18 June 1999	Accession Number PTA-252
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
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ATCC Deposit No.: PTA-252

CANADA

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NORWAY

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

AUSTRALIA

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

FINLAND

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

UNITED KINGDOM

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

ATCC Deposit No.: PTA-252**DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

SWEDEN

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NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA101PCT	International application No.	UNASSIGNED
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INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>100</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 18 June 1999	Accession Number PTA-253
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only	For International Bureau use only
<input checked="" type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer Sonya D. Barnes PCT/Internat'l Appl Processing Div (703) 305-3665	Authorized officer

ATCC Deposit No.: PTA-253**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

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UNITED KINGDOM

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SWEDEN

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NETHERLANDS

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Applicant's or agent's file reference number	PA101PCT	International application No.	UNASSIGNED
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INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

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B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 22 December 1999	Accession Number PTA-1081
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<p><input checked="" type="checkbox"/> For receiving Office use only</p> <p><input checked="" type="checkbox"/> This sheet was received with the international application</p> <p>Authorized officer Sonya D. Barnes PCT/Internat'l Appl Processing Div (703) 305-3665</p>	<p><input type="checkbox"/> For International Bureau use only</p> <p><input type="checkbox"/> This sheet was received by the International Bureau on:</p> <p>Authorized officer</p>
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ATCC Deposit No.: PTA-1081

CANADA

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What Is Claimed Is:

1. An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:
- 5 (a) a polynucleotide fragment of SEQ ID NO:X or a polynucleotide fragment of the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
- (b) a polynucleotide encoding a polypeptide fragment of SEQ ID NO:Y or a polypeptide fragment encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
- 10 (c) a polynucleotide encoding a polypeptide fragment of a polypeptide encoded by SEQ ID NO:X or a polypeptide fragment encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
- 15 (d) a polynucleotide encoding a polypeptide domain of SEQ ID NO:Y or a polypeptide domain encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
- (e) a polynucleotide encoding a polypeptide epitope of SEQ ID NO:Y or a polypeptide epitope encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
- 20 (f) a polynucleotide encoding a polypeptide of SEQ ID NO:Y or the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X, having biological activity;
- (g) a polynucleotide which is a variant of SEQ ID NO:X;
- 25 (h) a polynucleotide which is an allelic variant of SEQ ID NO:X;
- (i) a polynucleotide which encodes a species homologue of the SEQ ID NO:Y;
- (j) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i), wherein said polynucleotide does not hybridize under stringent conditions to a nucleic acid molecule having a nucleotide
- 30

sequence of only A residues or of only T residues.

2. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises a nucleotide sequence encoding a protein.

5

3. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises a nucleotide sequence encoding the sequence identified as SEQ ID NO:Y or the polypeptide encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X.

10

4. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises the entire nucleotide sequence of SEQ ID NO:X or the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X.

15

5. The isolated nucleic acid molecule of claim 2, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N-terminus.

20

6. The isolated nucleic acid molecule of claim 3, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N-terminus.

25

7. A recombinant vector comprising the isolated nucleic acid molecule of claim 1.

8. A method of making a recombinant host cell comprising the isolated nucleic acid molecule of claim 1.

30

9. A recombinant host cell produced by the method of claim 8.

10. The recombinant host cell of claim 9 comprising vector sequences.
11. An isolated polypeptide comprising an amino acid sequence at least
5 95% identical to a sequence selected from the group consisting of:
- (a) a polypeptide fragment of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
 - (b) a polypeptide fragment of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone, having biological activity;
 - 10 (c) a polypeptide domain of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
 - (d) a polypeptide epitope of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
 - (e) a full length protein of SEQ ID NO:Y or of the sequence encoded by the
15 cDNA included in the related cDNA clone;
 - (f) a variant of SEQ ID NO:Y;
 - (g) an allelic variant of SEQ ID NO:Y; or
 - (h) a species homologue of the SEQ ID NO:Y.
- 20 12. The isolated polypeptide of claim 11, wherein the full length protein comprises sequential amino acid deletions from either the C-terminus or the N-terminus.
13. An isolated antibody that binds specifically to the isolated polypeptide
25 of claim 11.
14. A recombinant host cell that expresses the isolated polypeptide of claim 11.
- 30 15. A method of making an isolated polypeptide comprising:

(a) culturing the recombinant host cell of claim 14 under conditions such that said polypeptide is expressed; and

(b) recovering said polypeptide.

5 16. The polypeptide produced by claim 15.

17. A method for preventing, treating, or ameliorating a medical condition, comprising administering to a mammalian subject a therapeutically effective amount of the polypeptide of claim 11 or the polynucleotide of claim 1.

10

18. A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising:

(a) determining the presence or absence of a mutation in the polynucleotide of claim 1; and

15 (b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or absence of said mutation.

19. A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising:

20 (a) determining the presence or amount of expression of the polypeptide of claim 11 in a biological sample; and

(b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or amount of expression of the polypeptide.

25 20. A method for identifying a binding partner to the polypeptide of claim 11 comprising:

(a) contacting the polypeptide of claim 11 with a binding partner; and

(b) determining whether the binding partner effects an activity of the polypeptide.

30

21. The gene corresponding to the cDNA sequence of SEQ ID NO:Y.

22. A method of identifying an activity in a biological assay, wherein the method comprises:

- 5 (a) expressing SEQ ID NO:X in a cell;
- (b) isolating the supernatant;
- (c) detecting an activity in a biological assay; and
- (d) identifying the protein in the supernatant having the activity.

10 23. The product produced by the method of claim 20.

SEQUENCE LISTING

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Steve Ruben

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aattcagatt atccaaatat tttcctaata ctatgtggga atgctgattt tccttttggt 1860
acgtagtgga aacattttgc attgtttaca tagttctcat ggaacatgga aatttttgaa 1920
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```

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<210> 4
<211> 986
<212> DNA
<213> Homo sapiens

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```

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

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<400> 4
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caggcgcggc gaatggtgac agagacgtcc cgcaggcgga gaatacaaga gcttgaagaa 120
cgccgcagga ntctcgtgga agcctgcaga gcaagggaag cagcgtttga tgccgaatat 180
cagcgaaatc ctcacagggt ggacctcgat attttaacct ttacgatagc tctgactgcc 240
tctgaagtta tcaaccctct gatagaagaa cttgggttgcg ataagtttat caatagagaa 300
tagttagggtg gtgacactac ttcaagagaa cctctgcatt ccagtcatac caatcctgca 360
acttgatttt cagaagtcaa gagtatatcg cgataagaca gtgcacagggt ggaggggaaa 420
aaaaggggga gggggaagct tatcttgaaa aagcatcaca gaagtagaaa aaaatgtcga 480
aagcattata actgtaacgt tctttgagtt tgtgattgat ccacattttt cccctgcat 540
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gattttgtgt tttcttaggc atttcaagtg acaagcaaag taaatgtata tattatgtga 840
taaatcatgt tttcaagaac gtcaaatctt tggacttttt tctttcaatt ttttaatttt 900
aaagtttttt tggattataa aaatctattc acaagccaaa aaatatataa aatatacagc 960
gaaaagccaa aaaaaaaaaa aaaaac 986

```

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<210> 5
<211> 370
<212> DNA
<213> Homo sapiens

```

```

<400> 5
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atctaattggc tctgccccta cacgaatctc agtacaatgc ttgtcccctg ccaccacagg 180
ctcagcatca gtagatctct gttgtaccag agatatttct ctgttacctg gagagccacc 240
tattgtgtgt cccacagggt tttttggccc cttgccgact ggcagtgtcg gtttgctatt 300
tgatctctca agcctaaatt taaaagggtgt tcaagtacat actggtgtaa ttgattctga 360
tattcagggtg 370

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<210> 6
<211> 511
<212> DNA
<213> Homo sapiens

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<220>

<221> misc feature

<222> (511)

<223> n equals a,t,g, or c

<400> 6

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tcatgccaca aaatttggtta gctccacctt taaaatatat ttagattaag acctctcttc 120
atcaccaccc tgctgtcacc ctaacaaagc aaccatcatc tctcaaaata aatcctaata 180
tccttagggc ttcctaggcc tactctttat gccccaggct acctatccag gtgaatctct 240
tccagtcttc ctccatgaat ttctgtctca cagaatgcat gtaccattgc actttgtaac 300
gtcagtctct cccaccagac aatgatcaga ttcttagttg tctctttata cccattcaca 360
gtgcactgac tgagcacaaa ttttaaggctt caataaatgg taagtgaatg aataatgaat 420
gaatgaatgc tacaatattg attataatgg ataaagagat atattgacct gcttgacaga 480
aagccgaggg gggcaaagta aaatgggcct n 511
```

<210> 7

<211> 718

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (676)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (702)

<223> n equals a,t,g, or c

<400> 7

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gaggggacag gctgacstgg aggrccagag gccccggag gagcactgaa ggagaagatc 120
tgccagtggg tctccattgc ccagctcctg cccacactcc cgcctgttgc cctgaccaga 180
gtcatcatgc ctcttgagca gaggagtcag cactgcaagc ctgaagaagg ccttgaggcc 240
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cgaggagagg ccctgggcct ggtgggtgcg cagctcctgc tactgaggag caggaggctg 300
cctcctcctc ttctamtcta rttgaagtca ccctggggga ggtgcctgct gccgagtcac 360
cagatcctcc ccagagtcct cagggagcct ccagcctccc camtaccatg aactaccctc 420
tctggagcca atcctatgag gactccagca accaagaaga ggaggggcca agcaccttcc 480
ctgacctgga gtctgagttc caagcagcac tcagtaggaa ggtggccaag ttggttcatt 540
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tcgtcgaaa attggcaagt acttcttttn ctgngatctt caagcaaaag ctttccgatt 660
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<210> 8

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<400> 8

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tttgatacat aatttgcccg agtttatcca taaattctat gtcttccttt ttatctcctt 180
tcataattct acaccctgct gtggcctggc caacataatg atttaggtga tctagagttt 240
agtcaaactg gataattgat tgtaattgct tagaaattta ccacaaaaat cgccctctgtt 300
tctttgggat tgctcctaac ttttcacttc ttttgagggc tgcacacgct gtncctcagca 360
gctactggtc ccagccactg ggggaagaaa gaaatgcatg gtaggacagc ncttaccaat 420
tccttttaat tgccnaattc gaagc 445

<210> 9

<211> 758

<212> DNA

<213> Homo sapiens

<400> 9

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aaactgcaga tcggccagag tggtagaaaa gttgctgcag ggtttttctg gctttgcctg 180
cccagccgct ccatgcctgg ctagaggaga aggaggagcc acatgtggta cactggaggc 240
tgagacctgc agatggcatg gctctgcggc tcaccttgct gcagttgggtg gtggtgacag 300
agactgcagc ttgactgtag tgaatttgga aattatctgt ctggaagctc tgagtttatc 360

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taaactgaac cacacatgga caggccattc ttccgaggac ccttagattg atcccagggg 480
gagccctagc tgctattccc cattcaacgc cccttttcag caggaagtag ccagaaggag 540
tcgccgcccc aaatccccta acagcagtta gtgtggcatc tccacaggaa gtaatgttgt 600
aggagttact aagaaattat tttaggcaga tagagaggaa aaggggtcct tgggaagttt 660
tcatttttta aagcatctct ggaaaagttt cttgtaaagc cccggctctt agagccaggc 720
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<210> 10

<211> 3064

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1375)

<223> n equals a,t,g, or c

<400> 10

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ctgcgtcagt ttcagttcat ggccctggcca gaccatggag ttcttgagta cccaactccc 180
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gagcggatga agcacgagaa gacgggtggc atctatggcc acgtgacctg catgcgatca 360
cagaggaact acatggtgca gacggaggac cagtacgtgt tcatccatga ggcgtgctg 420
gaggctgcca cgtgcggcca cacagaggtg cctgcccgca acctgtatgc ccacatccag 480
aagctgggccc aagtgcctcc aggggagagt gtgaccgcca tggagctcga gttcaagttg 540
ctggccagct ccaaggccca cacgtcccgc ttcatcagcg ccaacctgcc ctgcaacaag 600
ttcaagaacc ggctggtgaa catcatgccc tacgaattga cccgtgtgtg tctgcagccc 660
atccgtggtg tggagggctc tgactacatc aatgccagct tcttgatgg ttatagacag 720
cagaaggcct acatagctac acaggggcct ctggcagaga gcaccgagga cttctggcgc 780
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acaa
3064

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<210> 11

<211> 1496

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (643)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1478)

<223> n equals a,t,g, or c

<400> 11

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<210> 12

<211> 1427

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1407)

<223> n equals a,t,g, or c

<400> 12

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<210> 13

<211> 3548

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1103)

<223> n equals a,t,g, or c

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<210> 14

<211> 466

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (95)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (433)

<223> n equals a,t,g, or c

<400> 14

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<210> 15

<211> 864

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (847)

<223> n equals a,t,g, or c

<400> 15

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<210> 16

<211> 2805

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<400> 16

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<210> 17

<211> 710

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (608)

<223> n equals a,t,g, or c

<400> 17

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<210> 18

<211> 992

<212> DNA

<213> Homo sapiens

<400> 18

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atgttgacga ggccttttgtt aactcagaga gctcttggtc ctgatgggga cttgccctta 180
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<210> 19

<211> 1795

<212> DNA

<213> Homo sapiens

<400> 19

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tcttttttac tacatatattc ccaagttatc ttaagatgtc tgtaaattta acttttatta 1740
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<210> 20

<211> 709

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (708)

<223> n equals a,t,g, or c

<400> 20

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tgtagacttc cttagttctt aagtgggtga attcgtctgt tgttctgtaa cgttataaat 600
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaccccgggg ggggcccng 709

<210> 21

<211> 649

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (600)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (624)

<223> n equals a,t,g, or c

<400> 21

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tttgctccta aatgaatcaa aaacattgcc ttgaaataaa ctgaagctta gaantatacc 540
tccctattat gtccatttta aatttaagga aaaaggggcg aaaatttaaa actaanggcn 600
caaaattttg gtttaaaaact ccanaatata catgttaaat cctctgcta 649
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<210> 22

<211> 1607

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (820)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (821)

<223> n equals a,t,g, or c

<400> 22

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<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (249)

<223> n equals a,t,g, or c

<400> 24

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<211> 2680

<212> DNA

<213> Homo sapiens

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<211> 1859

<212> DNA

<213> Homo sapiens

<400> 26

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<211> 634

<212> DNA

<213> Homo sapiens

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<212> DNA
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<211> 2539

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (936)

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<222> (951)

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<400> 29

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caatacatgt aaaattgtac agaacaaaaa aataaaatca aagactgatc ttgtacagat 2400
attagtgtta ccagcattca tgtggaaatc aagagcaaag acaaaataat gttaaacaat 2460
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tcattattta aaaaaaaaaa 2539

<210> 30

<211> 494

<212> DNA

<213> Homo sapiens

<400> 30

gtcttctaga ggtagagtcg agtgtatctg agagtgtctt tctcttagaa taaatgacat 60
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ttgaagctga gtttattgag aatggttttg ttacctgctg atagctatct ttttgtgttt 180
agttcttttt gacttctttg gcctctaatt ttttgacagt ggcacttaga tgacagtcag 240
caattgcaac agtgaatgaa atcacacagc ttgagttcaa ggtggaaaga gaaaaaaatc 300
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tcttgctctc gaccttaggg tgtaatgtgg ccctgctcct tgtatggtga ataacttgtg 420
actgctgtgt ttaccacatg gttgrcagt tkacaaagca ctttgkgkat atattgcaca 480
ctctgcatcc ttac 494

<210> 31

<211> 1263

<212> DNA

<213> Homo sapiens

<400> 31

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tttaagatgg agctgtttta cctacttcat aagacagtgt cgagggtgcca ttgattcttg 180
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attggagact tactggcatg gctctacagc tgctcagtta ttaatcatgc agactaacct 360
gtcaacactg ggagatgcaa catagcaaaa ggacagagaa attagaattt tttgtgcaga 420
aagccctaaa ttcccacctg aatgtaactt acagctccct tacctactct cacacatgcc 480
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atgtagccta gtggctatat gcctattctc catgtaccct gcatggtagt gctgcaaact 600
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atttcactct ctaaaagcaa cagcatgtaa actagaatga aagaaggaaa ttatgtacgt 1140
atgcctaata ttctttgtga atgtctttca tttactaaa attatattag aaaccagatt 1200
gataaataaa aaattcaaag tagttttaat taccctaaaa aaaaaaaaaa aaaaaaaagt 1260
ttt 1263
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<210> 32

<211> 337

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<400> 32

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ggcacgaggc aaaaatgaaa acaaggcagc agcatcagac ctatcttttag attgtttttt 60
ttttctctct cttttacaag tgtcagttta attccagagc cctggcccag tattttctga 120
tgattttctc cccaaggaag agaaggaaat ccctgctggt tacacagctg cgatgtcaga 180
cttcctctga aacatgcact gttgctgcct attagcataa cttcagtcct tcattctctc 240
ctgactgatt agtgcactgc aggcagttta aaaaacatac tttggagggg ccgggcgtgg 300
tggctcacgc ctataatccc agcacttttg gaggctn 337
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<210> 33

<211> 1742

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1576)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1578)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1621)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1724)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1733)
<223> n equals a,t,g, or c

<400> 33
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tacatatgtc cgctgggtga gttgacctgt ggcctcgac agtgattctg ggccctttat 120
gcttgctgtc tctcagaatt gttttcttac cttttaatgt aatgacgagt gtgcttcagt 180
ttgtttagca aaaccactct cttgaatcac gttaactttt gagattaaaa aaaaaaacgc 240
catagcacag ctgtctttat gcaagcaaga gcacatctac tccagcatga tctgtcatct 300
aaagacttga aaacaaaaaa cagttactta tagtcaatgg gtaagcagag tctgaattta 360
tactaatcaa gacaaacctt tgaaagggtta cactaagtac agaactttta aaccttgctt 420
tgtatgagtt gtactttttg aacataagct gcacttttat tttctaatagc agaggatgaa 480
taagttaaat acatgctttg aggatagaag cagatgttct gtttggcacc acgttataat 540
ctgcttattt tacaatatac acgtttccct aagaaatcat ggcagagatg tgagggcaga 600
atatacacia cagatgctga aggagaagga gggtagtggt ttgcaaaaaga aaaagaaaag 660
aaccaacaga attttaactc tattaacttt tccaaatttt cctatgcttt tagttaacat 720
cattattgta tcctaatagcc actaggggag agagcttttg actctgttgg gttttatttg 780
aatgtgtgca taacagtaat gagatctgga aacacctatt ttttggggaa aaaggtttgt 840
tggctcctt cctgtgttcc tacraaactc ccactctcag gtgcaagagt tatgtagaag 900
gaaagggagc tgaaatagga acagaaaaat caaccctat aactagttaa caccaaggga 960
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aacatggaat actacgaatg aaatcacatc actgtatctt ttacatcaat agcctcacca 1080
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caacgtagtt gtwattagta gttctataaa gagaactgct tttaacatta ggggactggg 1560
gagcagtgcca tggggntnaa aaaggggaagt gttttctcac grggaaaaca tgytcaggga 1620
naawtaaagg aacactttct accyctgttt ccaggatttt tgaaacactt wtttttaaac 1680
ccaattttta atttcygtgt tcccaaaata ggttttttag gggncatctg ttntctcccc 1740
ta 1742

<210> 34

<211> 1166

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (965)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1090)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1094)

<223> n equals a,t,g, or c

<400> 34

ccggaatgaa aacaaacggc ggccgctgcc gagtccgggc actctgctgg tcgcggcggg 60
agtggcgctg cgcaggggatg gcacaaaaga aatatcttca agcaaaattg acccagtttt 120
taagggaaga caggattcaa ctttggaac ctccatatac agatgaaaat aaaaaagttg 180
gtttggcatt aaaggacctt gctaagcagt actctgacag actagaatgc tgtgaaaatg 240
aagtagaaaa ggtaatagaa gaaatacgtt gcaaggcaat tgagcgtgga acaggaaatg 300
acaattatag aacaacggga attgctacaa tcgaggtgtt tttaccacca agactaaaaa 360
aagataggaa aaacttggtg gagacccgat tgcacatcac tggcagagaa ctgaggtcca 420
aaatagctga aacctttgga cttcaagaaa attatatcaa aattgtcata aataagaagc 480
aactacaact agggaaaacc cttgaagaac aaggcgtggc tcacaatgtg aaagcgatgg 540
tgcttgaact aaaacaatct gaagaggacg cgaggaaaaa cttccagtta gaggaagagg 600
agcaaaatga ggccaaactc aaagaaaaac aaattcagag gaccaagaga ggactagaaa 660
tactggcaaa gagagcagca gagacagtgg tggatccaga aatgacaccg tacttagaca 720
tagctaacca gacaggcaga tcaatcagaa ttccccatc agaaagaaaa gcccttatgt 780
tagctatggg atatcatgag aagggcagag ctttcctgaa aagaaaagaa tatggaatag 840
ccttgccatg tctgttgac gctgacaaat atttctgtga gtgttgacaga ragctgctgg 900
acacagtggg taactacgcc gtcctccagc tggatatagt gtggtgttam ttccgcctgg 960
aacanctgga atgccttgat gatgcagaaa aaaaattaaa cttggsccag aaatgcttta 1020
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tcattcttatn ggcncgttga gtccatttct agcattttgtg tttattcctg ttaaagtatt 1140
tgaactactg ccagaagggtg gatttt 1166

<210> 35
<211> 1049
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<400> 35
gatgggtgcc cccggcngca ggaattcggc cagcaggntg gtgctggggc ttcttctcct 60
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ccgcgaaaagc cccagggggc attggaccct acagtcaagc tgtattagtc gacaggacca 180
tttacatttc aggacagata ggcatggacc cttcaagtgg acagcttggtg tcaggagggg 240
tagcagaaga agctaaacaa gctcttaaaa acatgggtga aattctgaaa gctgcaggct 300
gtgacttcac taacgtggtg aaaacaactg ttcttctggc tgacataaat gacttcaata 360
ctgtcaatga aatctacaaa cagtatttca agagtaattt tcctgctaga gctgcttacc 420
aagttgctgc tttaccctaaa ggcagccgaa ttgaaattga agcagtagct atccaaggac 480
cactgacaac ggcataccta taagtggggc cagtgcgtgtg tagtctggaa ttgttaacat 540
tttaattttt acaattgatg taacatctta attaaccttt taattttcac aattgatgac 600
agtgtgagtt tgatgaaaaat atctgaagct attatggaaa taccatgtaa tagggagagt 660
tgaacatgaa tattagagaa ggaatccagt tactttttta aattacacct gtgtgcacct 720
gtattactga atataggaaa gagataccca ttacatagtt actcagtaaa caaaagagaa 780
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aaactaatga tgtgaactat ttagttttga tgcccggtat gtgattctgc ttttacttga 900
gtaaaattaa agtggtttaa tttgagatca aggagaagat agtggacaa aatgttatat 960
agataatatt tttctaattg aaataaaata ggcagatttc aaaaaaaaaa aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaactcga 1049

<210> 36
<211> 489
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<400> 36

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gtttgttgcc tgcttgtttt aatgttctgg cttgaggcag cgagcccttg actatgccac 60
attgccagga ttttgcagg tagattgtac tacagcactg cctttggcct gccagactct 120
ggagtcccca cattttcatc ctgttctcag gaaaacactt tgaccactt gaagctctga 180
gctactgctt cacagcttcc tggggtcagt ctccagccaa aaccatagat atcccaamwg 240
cagccaaacc acggctctgg gcgaagggaac gattagggtt actstagggt tccacaccct 300
gatgctcctg gcctttaatt tgacaactct ggactgccag gttttcacag acngttggac 360
atggattcaa gattgggaat gtnangggat ggtttggaac cagtgtttgc tttgagcagt 420
tttaaaattt ggccaggaga ttcattgtgag caagaaatgt tagataccag ttttttgggg 480
tcaagggggg                                     489
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<210> 37

<211> 598

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (595)

<223> n equals a,t,g, or c

<400> 37

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gactcccaga gtgctgggat ttcagggtgtg agccactatg cccagcctaa tacgtggatt 60
tttaagcctt caggttcttg ttcagaagtt tcctgggtct cattaaaata atgaggcact 120
cagaattggt ctaataaaaa taacgaccat ttctttctac tccagtctct ttcacaaact 180
tcttagtgaa aatgacaagt gaggccttc agtaggggca ttttcagtgg agataatagc 240
ggcagacctg agaccttggg ctaggtagtt tattctcatt tctgaacaga tgatgaattt 300
tctcatatga ccctaagaaa ttgttttacc aaaaacaaag tgatctattt gctttgggag 360
gaactccctt ccttttggtt ctcttccctt ccccccctcc cctgcggttg tagagcccgt 420
tctgtccggt cgtggttctg tccagccatg atccgggagt cctagcttgc taatggamca 480
cctgagatgt tccttatggc tcaaggctwa aattgaaggt ggaaccacc tgaagcctcc 540
gtggggaggc cttgsgggag gttwggccta aargcattag gaagatacta gcttnagg 598
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<210> 38

<211> 762

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (725)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<400> 38

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taatgagatt tttggatcga tttgtatacc gaaatccaaa gcccataaa ggcaaagaaa 180
acacagatag tgttgtgatg cagccgaaaa gaaaacattt tattaaggat attcgtcatc 240
ttcctgtgaa cagtaaggag ttccttgcaa aagaagaaag ccaaatacca gtggatgaag 300
tgtttttcca caggtattat aaaaaagttg ctgttaaaga gaaacaaaaa cgggatgcag 360
atgaagaaag tatagaagac gtggatgatg aagaatttga agagctgatt gacacatttg 420
aagatgataa ctgtttcagc tctggaaagg atgatatgga ttttgctgga aacgtgaaaa 480
agagaacaaa aggagctaag gataacacat tagatgaaga ttcagaagggt agtgatgatg 540
aacttggtaa cctggatgac gatgraagtt tctttaggga agtatggatg atggaagaat 600
ttgctggaag ttgatggaag atgggaggga acattycatg ggatgtgttt agatggatgg 660
aaagtggaga gtgtttccag aacttggaag ttccactccc aaagtccagt accaaggaaa 720
agccnagagn aaaagggtac cagtggattt ttggacctg gc 762
```

<210> 39

<211> 1958

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1835)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1885)

<223> n equals a,t,g, or c

<400> 39

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tgattgcaat gtctggacgt ggtaagcaag gaggcaaagc tcgcgccaaa gcgaaatccc 120
gctcttctcg cgctggtctc cagttccccg tgggccgagt gcaccgcctg ctccgtaaag 180
gcaactacgc agagcgggtt ggggcaggcg cgccggtgta cctggcggcg gtgttagagt 240
acctgaccgc cgagatcctg gagctggccg gcaacgcggc tcgcgacaac aagaagactc 300
gcatcatccc gcgccacttg cagctggcca tccgcaacga cgaggagctc aacaaactgc 360
taggccgggt gaccattgct caggcgggcg tccttcctaa catccaggcc gtgcttctgc 420
ctaagaagac cgagagtcac cacaaggcca agggcaagt atttgacagg tatctgagct 480
cccgaaacg ctatcaaacc caaaggctct tttagagcc cccctaccgt ttcaaaggaa 540
gagctaacct cactgcttgt aggtagaagg aaaaaaggca ctaaggttgc aaaagcttct 600
catttcagag agatgccagg atcctaagt cctgccaaac ttaccaattc taaggaataa 660
gtggatggat ggcattactg attcctacat tactgattga ttctgcatcc gcaaattgtt 720
ttattaaaaa cattctacat catgtgtggg gagataagga ggataaaatg aagagaaaga 780
atattattga ggggaagtgc ttctgaatac aaaatgtgtt taatttttta aataagtatt 840
acattcacag ggttcaaact atttgaagta aagagattat atataaagaa tccatccctc 900
aacttaccga ggtggtcact tttctttttc ttgtgtatct gccagatt cattcctgct 960
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```

gatatcagtc aataatgaat gatacgtgtt ttcttcactt ttttcattct tgtcaggtag 1020
cagactgtgt agacttttct gcacttgccc ttttcataac aatctatctt ggagaacttt 1080
ccctatgaga acatacagag cttcctgtac acagttgcat gtactgcatt atgcaaatgc 1140
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tccttggtta aattgccatt tcctttcttc cttgcataat gattaggaaa cacatcctcc 1740
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tgactgttac ttttacaatt ctgtgtgtat tggtnggcta agggcctgta tgggtccact 1860
gctgtattcc cagggtccca gcatnggkgc ctggacgctg cckgggcaaa tagtagtcac 1920
ccgaggaaat gggctggatg gaatttcatt gagggcct 1958

```

<210> 40

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

<400> 40

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gccangtct ccgcttnccc cgtcttgtac acccctaact cctgaggctc ctccgaatca 60
cgcganggaa agcggagaag ctcaagtggc cgccatgtca gaggcttatt tccgagtgga 120
gtcgggtgct ctggggcctg aggagaactt tctttctttg gacgacatcc tgatgtccca 180
cgagaagctg ccggtgcgca cggagaccgc catgcctcgc cttgggcttt cttcctggag 240
cggagnaagg cgccgagact gacaacgcgg tcccacagac ttttatcgga cgttttcgcc 300
gcatcatgga ctctcacag aatgcttaca acgaagacac ttcagccctg ggtagccagg 360
ctagacgaga tggagagggg cttatttcaa acagggcaga aaggactgaa tgactttcag 420

```


tggttgggaga agggggcaggc ttctcagatc acagcttcca acctcgttca gaattaa 477

<210> 41

<211> 860

<212> DNA

<213> Homo sapiens

<400> 41

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ttcactaact cccgagagaa ctcccacagg ctcttctctgc tgggtgcaagc ttttgggggt 120
gtggacgtgg ctgagttctc ctgcgcgtac gggcctggcc agaggaggat gatcctgaag 180
cagtttgaac aggggaagat ccagctgctc atcagcacgg acgccaccgc gcgaggcwtc 240
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<210> 42

<211> 1131

<212> DNA

<213> Homo sapiens

<400> 42

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gaaataaatg cttttttagt caaaaaaaaa aaaaaamaaa aaaaaaaaaa a 1131
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<210> 43

<211> 1334

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1019)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1204)

<223> n equals a,t,g, or c

<400> 43

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aattaatata aatataaaat aaaaaaacgc ccatagtcac acaaagcccc cgcaccaata 1200
ggancctccc gaatcaaccc tgaccctctt ctttcataac ctaacctgac tagaaaagct 1260
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aggcataatt aaac                                     1334
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<210> 44

<211> 2351

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2350)

<223> n equals a,t,g, or c

<400> 44

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gcactattgc tattccgtgc aaacaaaact cagcttttcc tgactcagtt ccttgactta 180
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cttcccttgg tccagacagc tgggagtggg ttagggccac tgetgttttg agcagggcca 360
cttgctccat ttcactgaag gctttgctgg gtgaaacac ttcagcatct cctcctcagg 420
tcaaccata aagaccaggt ccagcacgt ggtcttgga catccctggc ctcaggccct 480
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ttaataaaat gctaaatgtc aatttatcac tgcgcatgtt tgactttaga ctgtaaatag 2220
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agatcagttt gtttctttct gtgctggtaa caatgagcgt cgcacagaca tggtttcagg 2280
taataaaatc tattctatga taaaaaaaaa aaaaaaaaaa gggngggccc nctaaggggt 2340
ccaagcttan g 2351

<210> 45

<211> 1587

<212> DNA

<213> Homo sapiens

<400> 45

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tatttttttg tagagatggg gttgtccagg ctggtctcaa actcctgagc tcaagcaatg 180
tgcccgccct ggcttcccaa agtgctggga ttataggcgt aaaccactgc acgcagccta 240
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tcctgcgaag gaaattccag agcctgtatt taagctacct aggcttttac actcccttta 360
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aaagagggcc caacctacaa ctaagaaggg acaaaccttg aactaagtaa gaccttacac 480
accagaaaag aacactgggc ctccttctct cagggacaat gcagtagcca cttggcttgt 540
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ttaagcaaaa tcctttcaga aagaaacaaa tggggaaggg cagattaaga atgcatatgt 840
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tttcatggag tctatgctga tcctttaatt gacaaataaa agatatatat ctgtggtgtg 1560
caaaaaaaca aaaaaaaaaa aaaaaaa 1587

<210> 46

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (345)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<400> 46

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gccaccttgt gaagaagggtg ccttggttcc cctttacctt caaccatgac tgtaaatttc 180
ctgaggcccc cccagccatg ggggactgtg agtcaattaa acctctttcc ttataaaatt 240
accagtcctc gggcagtttt cttatagcag tatgagaatg gacttaataa aggtagggtt 300
aaaaagtatg gctkgggcat tgtagctcaa cacctgtagg tcaanagcta nctttgggtg 360
ggctgaggca ggagggacg                                     379

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<210> 47

<211> 1920

<212> DNA

<213> Homo sapiens

<400> 47

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gaacaaggag ttaaaagcaa tccatgtgac tcaagccttt cacatactga cagatgggtat 180
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agtagcctta aaaaggcttt tgtttatttc tttggtttgt taactagtgt catctattta 360
gagaaacatt tttgttttta attgctcaaa gctgtcgccg ctagtcttat gagctatcta 420
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tcagacaagt aaagtatgaa acattcttat ttcagttaga tggggaacat ttgtctagcc 660
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<210> 48

<211> 319

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (306)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<400> 48

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cactggggaa ttccmgatgt tacttaggga attttatact ggtgcatctc aataaagaac 120
tgaaagtaag cacaagaaga aaaaaagcct tatctttgct ctagattttg caaaggggaa 180
atttcaacag aacgcaatca ttgctacacg tctgccaaaga cacaaggctt gggcgatctt 240
tttttgttca tttgttttgg atacttagct agtttttcct aaatgtatac cattggaggg 300
ggatanctgg gcctttngg                                     319
```

<210> 49

<211> 278

<212> DNA

<213> Homo sapiens

<400> 49

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taccgcttcg ctggcggcg cggtggagtga tgaccctrat gtttatcttg ctggcgcca 180
tgctttggtt tgttgctgcc ccggtggtga cgtatatcct ctgtgcgtta gtggtattgt 240
tggcagcgcc tgttttgaat ggcagattgt acgcccgt 278
```

<210> 50

<211> 652

<212> DNA

<213> Homo sapiens

<400> 50

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tctttggcat ttatttggtt tttctacgtt ttcagtcca tttactcca gactactcc 180
ctgccaccta gtgcatcaga tacagctact tctggctgac ttttcaagg ggaccacct 240
acctgtcatc tcttactgt tcagaaatga ctgtgtcagt ggcacctcaa actcccttg 300
tgtccttttc caaggagaca gctaagggtg atggagatgc agaattgacc tcacgttcgc 360
cctagtccagg actgataccc tttccgtttc agaggattgc caagaaaaaa ctcacagttg 420
aggcagggtg ctctgaggtc ggctgcggtg tgggaggcac gsetgggcm gctctctggg 480
ctggagcagg tggattcgaa ggctgtcta gcacgagggc ccaaaggctc tgtcagtggc 540
cagtagctct gccgcctttc ccagagagg ggtccagggg acatcctgga aggctgggcc 600
ctggggccacc ttctgctctt gcaagctaga gccagcccaa tagggggcgg at 652
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<210> 51
<211> 943
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (786)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (843)
<223> n equals a,t,g, or c

<400> 51
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ggatgcctgc gagcaagcan gcggtcaccg tttcctactt ctatgatgtc acaaggaaca 180
gctatcggat catcagtgtg gacggagcca aggtgatcat aaacagcaca atcacaccga 240
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gagctnggag gcagagctcc gagaaaagga gacagagctg gaaagatctt ccggaanaa 840
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<210> 52
<211> 832
<212> DNA
<213> Homo sapiens

<400> 52
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gaggaagtca gagcgtgtg ctgtgaaatc tactaccgtt tgctggtttt gaaaatggag 180
aaaaagagtg aggaactgag aaacatggat ggccttggga acgtggaaaa gggcactga 240
aatgggacga catgaactca aggaggctat ttatgaccat gtcatttgca acatgaagaa 300
agcttatctg gagtgaagt aaatgagacc aacagagatr agagaccggg agaaatcctg 360

gttacactgc ttgaatccctg tcagtcctat actggagtc tgttaataca aaataatagt 420
aataatccct ctgtttctta tgtttatgcc aacttcaaca aaaagaaact tgactaagag 480
acaatataag aayttaatgt gtaattaaga aagaactctc caccacgggg aatgtgaaag 540
gtatatgagt cccttttcac gatgcatgt catgtctttt aaataagcca tactttatgt 600
tcaataaaaa gagaataagc aggattcgcm agagaacaca atcccttttt aactgctggg 660
aagatacytt tagtcattaa tgrctggacg acaatttggg rcacmtatat ggatattggc 720
cggtttgatga tgatgtgatt gggcctctaa gtgacaacat tgttcctgt atagagtga 780
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<210> 53

<211> 1554

<212> DNA

<213> Homo sapiens

<400> 53

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gagttttggg aagtgaagag aaaagaaaag ttgattacaa acgggacat attttgcttc 180
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tactctttcc gtgacgatga gggcgga aaaacagacatt tcttccttca tggaactgga 1500
tttggaattc ttgaagcagg cagcttcata ttataccgat ttgttctctg tcaa 1554

<210> 54

<211> 281

<212> DNA

<213> Homo sapiens

<400> 54

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atgcttcag gaattacgct atttatactt tataaatcta taatgtgtam tgaattaaaa 120
acaagcttgg gaaacataaa ctcaagttag aaaatatggg ttgacataa aaccttaaat 180

atgtttcatt tgtttgcttg tttggcttgt ttgtttctaa cacaagtta acctacatgt 240
gagtcacctt tgggattgat gagtctagrg tttgaaacca g 281

<210> 55

<211> 807

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (770)

<223> n equals a,t,g, or c

<400> 55

gcgtcgaccg gagagctgtg tcaccatgtg ggctcggttgt cttcctcacc ctgtccgtga 60
cgtggattgg tgagaggggc catggttggg gggatgcagg agagggagcc agccctgact 120
gtcaagctga ggctcttttc ccccaaccc agcacccag cccagacagg gagctgggct 180
cttttctgtc tctcccagcc ccactccaag cccatcccc cagccccctcc atattgcaac 240
agtctcact cccacaccag gtccccgctc cctcccactt acscagarc tttctcccca 300
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cgtgtttctc tttgtggggc taaaacctc caaggacctc tctcaatgcc attggttcct 420
tggaccgtat cactggtcca cctcctgagc ccctcaatcc tatcacagtc tactgacttt 480
tcccattcag ctgtgagtgt ccaaccctat cccagagacc ttgatgcttg gcctcccaat 540
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gcctgagaca acaaattgggt ccctcagctc ggcaatggga ctctgagaac tcctcattcc 660
ytgactctta gccccagact cttcattcag tggcccacat tttccttagg aaaaacatga 720
gcatccccag ccacaactgc cagctctctg attccccaaa tctgcatcnn tcttcaaaac 780
ctaaaaaaaa aagaaaaaaaa aagtcga 807

<210> 56

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<400> 56

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gctgttggtc tgccaagtat tcctgttcat ccaattggat actatgcatg cacagaagct 120
cctagwaaaa atgggtggct cagcaccacc agatagcagc tggagaggaa gtctcaaagt 180
gccctacaat gttggacctg gctttactgg aaacttttct acacaaaaag tcaagatgca 240
catccactct accaatgaag tgacaagaat ttacaatgtg ataggtactc tcagaggagc 300
agtggaacca gacagatatg tcattctggg aggtcaccgg gactcatggg tgytggtgg 360
tattgacctt cagagtggag cagctgttgt tcatgaaatt gtgaggagct ttggaacact 420
gaaaaaggaa ggggtggagac ctagaagaac aattttgttt gcaagctggg atgcagaaga 480
atgtggtctt cttggttcta ctgagtgggc agaggrgrat tcaagactcc ttcaagagcg 540
tggcntgggc tttatattaa atgtgactc atctatagga aggaaactac actctgagga 600
gttggtattg acaccgcttg atgtacagct tggtagacaa ccttaccaaa gagctg 656

<210> 57
<211> 794
<212> DNA
<213> Homo sapiens

<400> 57
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agacccccgc gcccggcccc gcccgggaga agagcgccgg caagaggggc ccggaccgcg 120
gcagccccga gtaccggcag cggcgcgagc gcaacaacat cgccgtgcgc aagagccgcg 180
acaaggccaa gcggcgcaac caggagatgc agcagaagtt ggtggagctg tcggctgaga 240
acgagaagct gcaccagcgc gtggagcagc tcacgcggga cctggccggc ctccggcagt 300
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aacgcgcggc cggggcgggg gagactcagc aacgacccat acctcagacc cgacggcccc 420
gagcggagcg cgccctgccc tggcgagcc agagccgccg ggtgcccgt gcagtttctt 480
gggacatagg agcgcaaaga agctacagcc tggacttacc accactaaac tgcgagagaa 540
gctaaacgtg tttattttcc cttaaattat ttttgtaat gtagcttttt ctacatctta 600
ctcctgttga tgcagctaag gtacatttgt aaaaagaaaa aaaaccagac ttttcagaca 660
aaccctttgt attgtagata agaggaaaag actgagcatg ctcaactttt tatattaatt 720
tttacagtat ttgtaagaat aaagcagcat ttgaaatcgc aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaa 794

<210> 58
<211> 1155
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<400> 58
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agacgttttc aaaanggact aggctcatag taacttcgcc tgataaaciaa cttgatgcag 180
atgtttcccc caagcccact attttcttcc ttcrrattgct gaaacaaarc tccagaaggc 240
tggaacatac ctttgtcttc ttgagaaatt tttcccgat rttattaaga tacattggsa 300
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gacacataca tgaaatttag ctgggtaacg gtgccagaaa agtcaactgga caaagaacac 420
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ctccaataaa gacagatgtc atcacaatgg atcccaaaga caattgttca aaagatgcaa 540
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aaaaaaaaaa aaaaa 1155

<210> 59

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (473)

<223> n equals a,t,g, or c

<400> 59

ggcacgagtg caggggtcaa cccttataaa tgcagtcaat gtgagaaatc cttcagtggg 60
aaattacgcc ttcttgtaga ccagagaatg cacacaagag agaaaccata tgaatgcagt 120
gagtgtggaa aagccttcat taggaattct caactcattg tacatcaaag aactcattca 180
ggagagaaac cctatgggtg ncaatgaatg tgggaaaacc ttctctcaaa aatcaattct 240
cagtrcacat cagagaacac atacaggaga gaagccttgt aagtgcactg aatgtgggaa 300
agccttttgt tggaaatcac agctcattat gcatcagaga actcatgtag rtgacaaaaca 360
ttgataattt tacgaaactc tgaaaagtgg attcacaaga gatagaaaca atcatatata 420
aagagaaact ctgtaatggg aatcatcttg tccntcttcc agaaaantca tantgaatag 480
aaactttatg ga 492

<210> 60

<211> 1617

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1592)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1595)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1617)

<223> n equals a,t,g, or c

<400> 60

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gctgcagctg caggtgttcc agctgcacag gagaagcggc aattgcagga cgacttcgca 120
cagctgtctg aggagcgcga acagctggag cggcgctgcg ccaccttgga gcgggacagc 180
gggagctcgg gccgaggctt gaggagacca agtgggaggt gtgccagaaa tcaggcgaga 240
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gccgtgcgcg ggggtctacag gaggccgccc gagctcggga gctggagctg gaagcctgtt 420
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gcttgcgggc ccaggtggag cgattcgggg tggagctgca gcgggagcgg cggcgggggtg 660
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tttcacactg taaatttctt gtacaaaccc aaagaaaaaa ttaaaaaaaa tttttttgtt 1560
taaaaaaaaa aaaaaaaaaa aaaaaaaaaa cncngggggg ggcccgggtac ccaattn 1617
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<210> 61
<211> 1653
<212> DNA
<213> Homo sapiens

<400> 61
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tgggtgaaga ggggaatcat tagcattctg ggcgttttta tattaaatgt tttgtgaata 180
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attccataaaa gtatgatgta tgctttggaa gagggatatg agtgatacaa ttgttatata 360
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gagttaagaa gatttttcgg cttgagcaga agatgtgttt gttttgcatt tttcagctcc 480
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gatgaaaaat gttcttctat ttatatgata cca 1653

<210> 62
<211> 440
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<400> 62

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atctctgctc ccaaacattc accatatgag actgtagacc taataaaaat aaacataaga 180
ttatgagaat aaaatatcaa taaatatttt atactatctt gcagtgggat aggaattgtc 240
tcaactcctgc tggggtgact ccccatgaac cccagggctc ttcagttcca aagrggaaaa 300
aggggaacag atggcctcct ccccttcctc actccctcctg gacccaggat tgctccctga 360
agggttttcga gccaccctcc ttcccattcc tctggggggg ccaaggangn ttaaacagca 420
gggccttcc ngtgttgccc 440
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<210> 63

<211> 1062

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (974)

<223> n equals a,t,g, or c

<400> 63

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cacagggtgca gcctcacaga agaaggcttt ccgttcttca ggatttggac tagagttcaa 180
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gactgcttgt cccagaagca atttaaggag cagtttccag acatcagtca agaactctgat 540
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atgaagcaga ataaagctgt ctgaccagg agaaaaggaa ctatacagca tagtggagtt 720
ttgtgtacta aaattgctat ctactggtcc tttggaattg aagtagtaga aacctaaagg 780
cttggcgtca ggcttgaata tctcagaact taaactctta ccaaaatctg tatatttttc 840
ttaaggagtg ggattcctac tttatgtaat ggggtcgaaa tctttgaaca cattatttat 900
aaaaacctgt ttaaaaggtc gacggtatcg ataaagcttg atatcgantt cggcacgagc 960
ccacctctac ctctgggggg accggcctgg acgctgggtg ccccgaggacc cagcagagct 1020
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<210> 64

<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<400> 64
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ggctctggat acccttgaag cagtgcacag cctgtacaac agtccccagc agccctgtct 120
atccccagc atctccctgc tagctgctgt tccctctcct cccgctggct gggcctgctg 180
ccaagctgtg gtgactcagc tgagctggca cattgacccc agcttattgt ttaaaaacca 240
gcccgactgg gnaatttatg gtttcctatc cccttccaca cttttttctg gccacaaggc 300
aagaaactta tctctggcat cttcagattt cttstatttw attttgggnc ttcccttgcc 360
tggcaatatg tttcatagag tgggtaagtg agacctgaca ggtgttttca aggataattt 420
ca 422

<210> 65
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (674)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (684)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (692)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (697)
<223> n equals a,t,g, or c

<400> 65
aattcggcag agcgcttctc cattctctgt gggttgtgtt gttttcttca tgaattccga 60

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ccttgaaatt ggtgcatatt agctgcttct agtcagccct cttgcccaga atccccaaaa 180
agaaaattgt tagttcaggg attgtagctt ttttttgggt ttaacatgag atatgtgatt 240
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agttgggaaa atgattttaat attggaaact caagagttac aaattcttac agttatttca 360
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aaaacaaaaa gctacccaga aagggcagcc acattctaaa tgataggctt ttacctccct 600
gagggggctg ctaggtacct acctggatta ggaattcatt tggtaaaaaa cagggggcct 660
tttaaatcta aatnaccatt tccnaataat tngtttncgg tttattccg 709
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<210> 66

<211> 1302

<212> DNA

<213> Homo sapiens

<400> 66

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gctcgacaag aagagaaaga aggacatgct gaatagcaaa accaaaactc agtattttcca 60
ccaggaaaaa tggatctatg ttcacaaagg aagtactama gagcgccatg gatattgcac 120
cctgggggraa gctttcaaca gactggactt ctcaactgcm attctggatt ccagaagatt 180
taactacgtg gtccggctgt tggagctgat agcaaagtca cagctcacat ccctgagtgg 240
catcgcccaa aagaacttca tgaatatttt ggaaaaagtg gtactgaaag tccttgaaga 300
ccagcaaaac attagactaa taagggaact actccagacc ctctacacat ccttatgtac 360
actggtccaa agagtccgca agtctgtgct ggtcgggaac attaacatgt ggggtgtatc 420
gatggagacg attctccact ggcagcagca gctgaacaac attcagatca ccaggcctgc 480
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gctgagcgac gggcgggacc tggtcagcct gggccagctg cccccgacct gcacgtgctc 600
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cgcaaacgat taattctgtc agacaaaggg cagctggatt ggaagaagat gtatttcaaa 720
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tgtcacatcc tttcctggaa gggcactgac catccgtgca ctgccaataa cccagagagc 840
tgctccgttt cactttcacc ccaggacttt atcaacttgt tcaagttctg aatcccagca 900
catgacaaca cttcagaagg gtccccctgc tgactggaga gctgggaata tggcatttgg 960
acatttcatt tgtaaatagt gtacatttta aacattggct cgaaacttca gagataagtc 1020
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ttctcactag aattggatat gaaaagcaaa atactgtaaa taaacttttt ttctaacaat 1140
ttgccagcaa gactataagg gcaataattc tatttcagcg gtgaaaatgg agtcctctta 1200
atggtcacag aaactctctt atagttccct aggaagaaaa aggcaaaact caaatacaaa 1260
ataggacgct ttgtttacaa tgtgaaaatt tgtttagaaa ag 1302
```

<210> 67

<211> 1046

<212> DNA

<213> Homo sapiens

<400> 67

```
aattcggcac gagcttctgt tgggtgttatt ttcaattcta tttccagtgc cacaatagag 60
tgatattttaa gcaactccta caggcgaagg ccctgcagtt cctccagatt gacagttgca 120
gactgggcag tgtcaatgag aacctctcag tattgctgat ggccaaaaag tttgaaattc 180
ctgtttgccc ccatgctggg ggagttggcc tctgtgaact ggtgcagcac ctgattatat 240
```



```
ttgactacat atcagtttct gcaagccttg aaaatagggt gtgtgagtat gttgaccacc 300
tgcattgagca tttcaagtat cccgtgatga tccagcgggc ttcctacatg cctcccaagg 360
atcccggtta ctcaacagaa atgaaggagg aatctgtaaa gaaacaccag tatccagatg 420
gtgaagtttg gaagaaactc cttcctgctc aagaaaatta agtgctcagc cccaacaact 480
tttttctttc tgaagtgaag gggcttaaaa tttcttgga atagttttac aaaaatggat 540
ttaaaaaatc ctaccgatca agatgagttc agctagaagt cataccaccc tcaggaatca 600
gctaagtaat tattacttga ttcttttagc aaatcaatgc acgttatcct acttaatcct 660
taaataagtt tagatttaac taacccaaag tccaggagga tgttcttaca aaaaatagcta 720
tatcaagggc tggcacctag acattaaact gtaatttgaa aataagcaac atgttgcata 780
acttgttgga ataattcctt gttctgttta acacttgtca taaattagca gaataaaaaat 840
agtcgtgcaa caccgggggt atctggtatg caacgaaggg raaaatattt cactgattaa 900
ccccgaagtg gttttgcata ttttccttgc ttaatctaag catattatta gagaagtcac 960
accatgctga agctaattgag ggcaaaatgg tagtccatag attattttta aataaccctt 1020
taaggttata aaagtttaaa aaaaaa 1046
```

<210> 68

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<400> 68

```
caagagaaga aattatgaaa gggcgtgaat accaagaggc aggttattgg gggccatctc 60
agaggctgcc caacacaggc tactctttgg ccccgatga ttcattgttc ttccaaatgc 120
aaaatgcccc gtcccaagat ctccaaaagt cttatcccat tataggatta gctcagagtt 180
cagaacctta tcatctaaag ttccagggtg aggtaaggct tttgggtgta gttattttat 240
tacagctcct agcacacttc tagtggtata ctaatgcctc ttctgtatag ttcacttgga 300
aataaatgat ntaggtactt tgatccatat ggagttctgt gtaggaagat caacctagat 360
ctgatgttag ctggtaaaca ctgtagtggt aaaaaggcac tgtnttatga tagctctttt 420
tgacagtgac tgggattatg gggcaaatgg taaatggcat gcaattgaga tcagtattag 480
gttattaatt gaactggaat c 501
```

<210> 69

<211> 581

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<400> 69

```
aattcggcac gagggaaaga aggccatgta ggggcttgct ttagtcatcc actgctaact 60
cattaactat taattcaagc aatatgtatt atagaaccgt tttgtgtagc attggaatat 120
tgtccatttt gtaagtcatt gtgaatgtnc ttaattatca gcttgaaggt atttttgtat 180
taaaagttga cattgaagaa cctaagtga tgatgggatt tggggccagt agtgaaagta 240
tgtttcctct aaaatatctt cctaaacagt ggtatacatg gttattttat tatgagattt 300
gtatatgttc tgtgtttctc tgtgaacaat gtttcagtct ctctgtcacc atatgtaagg 360
ggaagtccac aaatatagac tacattgcac aaaactaaaa ttgttaatta caagaaaaata 420
taggtgctta ctttttgaag gtttattaat acatatgggt gtcacaatac gtatatatga 480
taaagtgtgt acatatacag atgtttatgg tgtataaatt tttctatacc caaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggccccccc a 581
```

<210> 70

<211> 1076

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (911)

<223> n equals a,t,g, or c

<400> 70

```
tccaaacaga gggagcagct atttaagggg agcaggagtg cagaacaaac ragacggcct 60
ggggatacaa ctctggagtc ctctgagaga gccaccaagg aggagcaggg gagcgacggc 120
cggggcagaa gttgagacca cccagcagag gagctaggcc agtccatctg catttgtcac 180
ccaagaactc ttacatgaa gaccctccta ctgttggcag tgatcatgat ctttggccta 240
ctgcaggccc atgggaattt ggtgaatttc cacagaatga tcaagttgac gacaggaaaag 300
gaagccgcac tcagttatgg cttctacggc tgccactgtg gcgtgggtgg cagaggatcc 360
ccaaggatg caacggatcg ctgctgtgtc actcatgact gttgctacaa acgtctggag 420
aaacgtggat gtggcaccaa atttctgagc tacaagttta gcaactcggg gagcagaatc 480
acctgtgcaa aacaggactc ctgcagaagt caactgtgtg agtgtgataa ggctgtgcc 540
acctgttttg ctagaaacaa gacgacctac aataaaaagt accagtacta ttccaataaa 600
cactgcagag ggagcacccc tcgttgctga gtcccctctt ccctggaaac cttccacca 660
gtgctgaatt tccctctctc ataccctccc tccctaccct aaccaagttc cttggccatg 720
cagaaagcat cctcaccaca tcctagaggc caggcaggag cccttctata cccaccaga 780
atgagacatc cagcagattt ccagccttct actgctctcc tccacctcaa ctccgtgctt 840
aaccaaagaa gctgtactcc ggggggtctc ttctgaataa agcaattagc aaatcawrwa 900
aaaaaaaaaa naaaaaagaa aaaaagtgtt ggcctaaatg agtcgtatta cagttgacgc 960
ggccggcgaa tttagtagat ggtgtaattc gaccgcagaa attccggaac cggaactctg 1020
aggggtgaca agtttcccca agagcggcgg attaaggctt gggcggacaa agggcg 1076
```

<210> 71

<211> 376

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<400> 71

```
gcccacgcgt ccgaggaggg ccgcstttcc ggtctgggtc ccsgagagga ctgccttgct 60
cacctgtccc ctcggcgcgg ccccggggag ctcccgagag gccccmggga tcgctggccc 120
tccgaactcc acagcaatga gcaagttggg caagttcttt aaagggggcg gctcttctaa 180
gagccgagcc gctcccagtc cccaggaggc cctggtccga cttcgggaga ctgaggagat 240
gctgggcaag aaacaagagt acctggaaaa tcgaatccag agagaaatcg ccctggccaa 300
gaagcamggc acgcagarta agcgagggat cwgmawaaa tagatgnttt gatgcaagag 360
atcacagagc aacagg                                     376
```

<210> 72

<211> 374

<212> DNA

<213> Homo sapiens

<400> 72

```
aattcgacsa gccagggcac cctgcccatt tatcccamgc agagggagca gaaccagcgg 60
tgtaactact gtgcttgaca cccagggcag gtcttttttt aactcaccga tcttccatgc 120
aacaaaattg ttttctgtga aaagcaggaa atgaataaca acagcgtagg tactccactt 180
caaatttccc aagaaattca gaagaattgt gaacaagttg ctggtttcac aatactgcaa 240
gacactgcaa gttattccaa gttcctacag gacaacgatg cacaattatt tacttactta 300
tggttaaata tacctatcag tttgactttc atcctttggt gacattctaa taatttatgt 360
aaataattat tcag                                     374
```

<210> 73

<211> 419

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (221)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

<400> 73

```
aattcggcag agctgcattg tcttttaggg ccaatggact tggaggcata gagattttat 60
aactactgcc agaaccctaa tattgccagt sggcctcttc tgctgctgtt gctagctgtc 120
ttcttctggg ggaaatgggt tgggttctaa atatgaatta acacagggct gtcttcgatg 180
aattcagcac aaaatgttct cagcaattga acactcggag ngaagtgtta ggcatttagt 240
gcagactcat agaatagcag gacaggaggg gatttggatc tgggcaagca ggagatgggt 300
atgaacatct gtcttttgag acctgccgag gtggcaatga aggtagaggc ccctgtgttg 360
```

aggtctttat tcaagaggct gtggtccctt tgggacttaa catagcatcc nttagacag 419

<210> 74

<211> 286

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<400> 74

gcaggcgact tgcgagctgg gagcacttta aaacgctttg gattcccccg gcctgggtgg 60
ggagagcgag ctgggtgccc cctagattcc ccgccccgc acctcatgag ccgaccctcg 120
gctccatgga gccnggcaat tatgccacct tggnatggag ccaaggatat cgaaggcttg 180
ctgggagcgg gaggggggcg gaatctggtc gccactccc ctctgaccag ccaccacg 240
gcgcctacgc tgatgcctgc tgtcaactat gcccccttgg atctgc 286

<210> 75

<211> 633

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (89)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (531)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (570)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (623)

<223> n equals a,t,g, or c

<400> 75

```
aggtagaaaa gcgagcagcc gtcctttcac agcctcagaa agtgctcget tcccttcggg 60
ggctttcgcg aatcccagagg caatctcgna ggcggtattt gacctgtcca aagacgactt 120
gatacctcta taatgtaaca gaaaaggta gaaaatatta agcaagtaga agtggtggagc 180
atattaagca agatgaacat ctcgggaagc agctgtggaa gccctaactc tgcagataca 240
tctagtgact ttaaggacct ttggacaaaa ctaaaagaat gtcattgatag agaagtacaa 300
ggttttacaag taaaagtaac caagctaaaa caggaacgaa tcttagatgc acaaagacta 360
gaagaattct tcaccaaaaa tcaacagctg aggggaacagc agaaagtcct tcatgaaacc 420
attaaagttt tagaagatcg gttaagagca ggcttatgtg atcgctgtgc agtaactgaa 480
gaacatatgc ggaaaaaaca gcaagagttt gaaaatatct cggcagcaga ntcttaaaact 540
tattaccgaa cttatgaatg gaaaggatan tctaccggga ggaattaaaa gctttctgga 600
caactccgcc ggaattgnga tgntcaccgc ttc 633
```

<210> 76

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<400> 76

```
agcacaagtt caggaccagc ctgcgcaaca tagcaagatc cccatctnta caaaaaaat 60
aaacaattag ccagggcata gtggcatatg cccattgtcc catctactct ggaggctgag 120
gcggggaggt cgangttcac agaaccacca taaccatcc agctagccag gtagaaggcc 180
tccaggtccg acgttgcatc ccccagggtc tgatgctgtc tgcaatcttc atccctaggc 240
agwagagcta aaaatg 256
```

<210> 77

<211> 694

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (668)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (673)

<223> n equals a,t,g, or c

<400> 77

```
agcagcaagg ccaagcatgc aagaktcacc atccaccctg gccatgatgc agggcctcct 60
ttgctggacc cgcagccctg caggacagag actggcagcg caccgtcatc gccatgaatg 120
ggatcgaagt aaagctctcg gtcaagttca acagcaggga gttcagcttg aagaggatgc 180
cgtcccgaaa acagacaggg gtcttcggag tcaagattgc tgtggtcacc aagagagaga 240
ggtccaaggt gccctacatc gtgcgccagt gcgtggagga gatcgagcgc cgaggcatgg 300
aggaggtggg catctaccgc gtgtccggtg tggccacgga catccaggca ctgaaggcag 360
ycttcgacgt caataacaag gacgtgtcgg tgatgatgag cgagatggac gtgaacgcca 420
tcgcaggcac gctgaagctg tacttccgtg agctgcccga gcccctcttc actgacgagt 480
tctaccccaa cttcgcagag ggcacgctc tttcagacc gggtgcaaag gagagctgca 540
tgctcaacct gctgctgtcc cttgccggag caaaccttgc ttcamctttc cttttccttt 600
ttggraccam ctgaaaaagg gttggcagag aagggaggca gttcattaag ttccttgcaa 660
aaaacttngc canggttttt ttggcccaa gggt 694
```

<210> 78

<211> 2562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2556)

<223> n equals a,t,g, or c

<400> 78

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ggcacgagtg tagacgaagg ctccatatca ccccggaactc tttcagccat taagagagct 60
cttgacgatg acgangatgt aaaagtgtgt gctggggatg atgtgcagac gggagggcca 120
ggagcagaag aaatgcgtat aaacagctcc accgagaaca gtgatgaagg acttaaagtg 180
agagatggaa aaggaatacc gtttactgca acacttgctg catctagtgt gaactctgca 240
gaggagcacg tagccagcac taatgagggg agagagccca cagactcagt tccaaaagaa 300
caaatgtcac ttgttcacgt ggggactgaa gcctttccga taagtgatga gtctatgatt 360
aaggacagaa aagatcggct gcctctggag agtgcagtgg ttagacatag tgacgcacct 420
gggctcccga atggaaggga actgacaccg gcatctycaa cttgtacaaa ttctgtgtca 480
aagaatgaaa cacatgctga agtgcttgag cagcagaacg aactttgccc atatgagagt 540
aaattcgatt cttctcttct ttcaagtgat gatgaaacaa aatgtaaacc gaattctgct 600
tctgaagtca ttggccctgt cagtttgcaa gaaacaagta gcatagtaag tgtcccttca 660
gaggcagtag ataagtggga aaatgtggtg tcatttaatg ctaaaagagca tgagaatttt 720
ctggaaacca tccaagaaca gcagaccact gaatctgcag gccaggattt aatttccatt 780
ccaaaggccg tggaaccaat ggaaattgac tcggaagaaa gtgaatctga tggaagtttc 840
attgaagtgc aaagtgtgat tagtgatgag gaacttcaag cagaattccc tgaaacttcc 900
aaacctccct cagaacaagg cgaagaggaa ctggtaggaa ctaggaggag agaagcccct 960
gctgagtccg agagcctcct gagggacaac tctgagaggg acgacgtgga tgggtgagcca 1020
caggaagctg agaaagatgc ggaagattcg ctccatgaat ggcaagatat taatttgagg 1080
gagttggaag ctctggagag caacctctta gcacagcaga attcactgaa agctcaaaaa 1140
```

```

cagcagcaag aacggatcgc tgctactgtc accggacaga tgttcctgga aagccaggaa 1200
ctcctgcgcc tgttcggcat tccctacatc caggctccca tggaagcaga ggcgcagtgc 1260
gcatcctgga cctgactgat cagacttccg gaaccatcac tgatgacagt gatattctggc 1320
tgtttgagc gcggcatgtc tatagaaact tttttaataa aaacaagttt gtagaatatt 1380
atcaatatgt ggactttcac aatcaattgg gattggaccg gaataagtta ataaatttgg 1440
cttatttggc tgggaagtgat tataccgarg aataccaact gtgggttgtg taaccgccat 1500
ggaaattctc aatgaattcc ctgggcatgg cctggaacct ctctaaaat tctcagaatg 1560
gtggcatgaa gctcaaaaaa atccaaagat aagacctaat cctcatgaca ccaaagtga 1620
aaaaaaatta cggacattgc aactaccccc tggctttcct aaccagctg ttgccgaggc 1680
ctacctcaaa ccggtgggtg atgactcgaa gggatccttt ctgtggggga aacctgatct 1740
cgacaaaatt agagaatttt gtcagcggta tttcggctgg aacagaacga agacagatga 1800
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aaacagagct gtgacatgta tgctaaggaa agagaaagaa gcagcagcca gcgaaataga 1980
agcagtttct gttgccatgg agaaagaatt tgagctactt gataaggcaa aacgaaaaac 2040
ccagaagaga ggcataacaa ataccttaga agagtcatca agcctgaaaa gaaagaggct 2100
ttcagattct aaacgaaaga atacatgcgg tggatttttg ggggagacct gcctctcaga 2160
atcatctgat ggatcttcaa gtgaasatgc tgaaagttca tctttaatga atgtacaaag 2220
gagaacagct gcgaaagagc caaaaaccag tgcttcagat tcgcagaact cagtgaagga 2280
agctcccgtg aagaatggag gtgcgaccac cagcagctct agtgatagtg atgacgatgg 2340
agggaaagag aagatgggtc tcgtgaccgc cagatctgtg ttggggaaga aaagaaggaa 2400
actaagacgt gcgaggggaa gaaaaaggaa aacctaatta aaaaatatgt atcctctata 2460
attagttatg acagccattt gtaatgaatt tgtcgcaaag acgtaataaa attactggt 2520
rgcacggtaa aaaaaaaaaa aaaaaaaaaa aaaaanaaac aa 2562

```

<210> 79

<211> 1610

<212> DNA

<213> Homo sapiens

<400> 79

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aattcggcac agggaaacat tctggttaatt tgtagagatc tgttggcatc tctgcttcac 60
aaactggaaa aaatcatttg taagtcttgc taattacttt tcttggagaa gaaaaaaaaat 120
gctacagttg caaacaatg tatagttttc aaaaagaagc aacttttttg ctcccagtt 180
tattcttagt ttccagccca cgcttgcca tagsratagg catagtgatg gcctcaattc 240
tttctctctt gcatccgtac cttttgctgt gtgactttgc agctcctctc attaaagagg 300
cagagcccc tctcccacc ataggagcag gttttgagag taacagaatg aagtgaatat 360
gacactgtgc cagttctaag accagccctc aaagggtcat gtgtttctgc ttgctttcac 420
tgtatttgaa atgttgctgt gagaaagaca tctctgaaac agctgaatgg tcctaagaaa 480
aggatgagag atgcaggag cagagctccc aactgaggcc agcctagatc acctaagagc 540
caggcccca gtttactctc atgtgtaagc aataaatgct taccagca ataccacca 600
ggtttggttg tggtttatat acagcattaa tgtggcaata ggtgcaatac accctgttaa 660
acaaaccata cacatatgac tctaacccta atcataaatt gattcagtct gttcagttcc 720
acaacgctgt ttctccaga atctcacaga tgacttacta aatccaacac aaatacacct 780
cagactttct gtctagctcc caaccagtta aaagcaattc taaatatatt ttttcttagt 840
cgtagtgcaa aagtatattc tctccctttc tctatagttt tctctcattt tgtcttcaga 900
cctagaagca tgagagccca gctgtcaaag tcatctagac ccccttcaga aggtcattaa 960
atttgctctat ttcacaggat tgcaagataa aatacagaat gccagtttra atttgaactt 1020
cggataaaca acaaattttt ttttagtata agcatatccc atacaatatt tgggatatrc 1080
ttatattttt atattgttta tctgacgttc aagctractg ggcatcctgt attttcttta 1140
gctaaatctg gcaactgtgc tatttcattg aaaacctgaa agtgtacaaa gaaggaagaa 1200

```

```
gcagaatctg ccatatgagt aatagaagtg agcaggccca ggactcccta agtcaagaaa 1260
ccaagaggcg tcattacgga aaagagtaac tcaccctgtg tgctccttgg tagttctccc 1320
tcagcgatgc ccccatgtta tgaatgggga aaagttcact gaagggttca tagtgaagaa 1380
actttttgga tgatttctgk tgggtgggtt tggatacctt caagggatca gaaaataata 1440
tacttaggaa attttggtaa tgtcatcatt actctctaca ttattattat gacggttaca 1500
attgttaaatt ctagggtggg ggtatgtggg ttatattgta catgattttt aacttgtctg 1560
catgtttgaa attataataa agtcaataaa taaattattg agacactctt 1610
```

<210> 80

<211> 1048

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (131)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (997)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1021)

<223> n equals a,t,g, or c

<400> 80

```
accagaccaa ttcgcccacc acaccaaatt ccggtggata ccctcmgtca tgttatcaat 60
cagacgggag gctacagtga tggccttggg ggaattcac tgtacagtcc acataattta 120
aatgctaatt naggctggca ggacgcaaca actccatctt ctgtgacttc tcctacagaa 180
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ccaccatcta cagctttact gtaaaacctt gtcttattcg agaacttggg aaatctgttt 360
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ataatttatt atcaatattt tacattaatg gtttcacagt tgccaattac ttggccttaa 540
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cactaatgga gttggaataa agagctgttt gcctatccct gttaatgatg gttgtgttta 720
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tgatccgtct ggggttttac ggtgtgcact ggggtgtgca cagacttgct aagggttgcy 960
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ntatttaaac atcccaccaa ccaaacac 1048
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<210> 81

<211> 1136

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1131)

<223> n equals a,t,g, or c

<400> 81

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ggacagattg acttttttga ccctacattt gactatgaga tgatcttccg gggaacagga 120
gcactgatat ttgtcattga ctcacaggat gattacatgg aagccctggc caggctccac 180
ctcacggtga ccagggccta caaagtgaat actgacatca acttcgaggt gtttattcat 240
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agcatatatg atcattcaat atttgaagct tttagcaaaag ttgttcagaa actgattcca 420
caactcccaa ctctggagaa tttgctgaac atctttatct caaattctgg aattgaaaag 480
gcatttctat ttgatgtggt cagtaaaatt tatattgcaa ctgatagtac tccggtggat 540
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aagcttaata atacaaccgt gctttattta aaagaggtga caaagttcct ggctctcggt 720
tgctttgtca gagaggaaag ctttgaaaga aaagggctaa ttgactataa ttttcattgc 780
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gttcagaatc ggctgcagaa gaaaaagaga gccacccta atgggacccc tagagtgtg 900
ctgtaggtga ggtttcagga atgtcttttg aaatcagacc ttatccatga ggctgtgtcg 960
ccatgttgca ctaaaggaag aggaagaagg agattgggac acataccatt gatttgttgt 1020
taaaaaaaaa aaattcctgc aaccctcttg atcttctctt ttataaataa agtaagcact 1080
ttgaagcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaangggggg ncccc 1136
```

<210> 82

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<400> 82

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acagccaaca gggggagcag tgcgagcntg aaggcagaca gtggcctggc ccagtctgat 60
gggagagacc caccgaccct gtggggctgg tccctacatc tggcgctctg acgtggggct 120
ctccctcgct gtgtgaagtt gcaccctgag tgcgggatca gcggaggagt tcaacgagag 180
attcctgagg attgcagtct ataaacttgg tgcaggcggc tgaccccgca gctyaacaag 240
atcaagaggc tgataatcaa gccctcagc ccgaaactca ggctgtcag ggaaaag 297
```

<210> 83

<211> 2150

<212> DNA

<213> Homo sapiens

<400> 83

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aattcggcag agctcacgag agaggatttg ggcgcctcct ctgtggattc tggccaggcc 60
gggttcggcg gttgctgtra gagcgggctt cccaacacca tgccgtccgc cttctctgtc 120
agctctttcc ccgtcagcat ccagccgtg ctacgcaga cggactggac tgagccctgg 180
ctcatggggc tggccacctt ccacgcgtc tgcgtgcttc ctcacctgct tgcctccc 240
aagctacaga ctacagatcg ggcactttct gtgtctagtc atcttagtct actgtgctga 300
atacatcaat gaggcggctg cgatgaactg gagattatct tcgaaatacc agtatttcga 360
ctccaggggg atgttcattt ctatagtatt ttcagcccca ctgctggtga atgcatgat 420
cattgtggtt atgtgggtat ggaagacttt gaatgtgatg actgacctga agaatgcaca 480
agagagaaga aaggaaaaga aaaggagaag gaaagaagac tgaggggcag cagctgcttg 540
gagtttgctg ccttcccgtc caccagctgc agctcccagt gctgcagtgt gcgtggcggtg 600
ggcatccttc cagctgactc atggtttgaa aaaccgttgt tttatttaaa tatccacagt 660
ggtagggcac acactgaagt tgcttttcag ccagcactga atgtatccat caggacatgc 720
gtcttcaggt gcctgatctt tgtagtcagg ctgtgggaac ggtctctgca gagcttcata 780
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aagtcacacac tccatggaga agcgtgtctt tcctaattgc ctggtgttct gttgatttag 1320
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tggtttcccc tatgttgta tcataataga gagggagttc tcacaagatc tgctggtttt 1980
aaagacagca gtttcccctg ctgtcactgt ctctctcctg ctgccttggt aagaagggtg 2040
ttgtttctcc ctctgccatg attgtaagtt tcccagctc cccggccatg tggaactgag 2100
tcaattaaac ttcttgttta taaagtaaaa aaaaaaaaaa aaaaactcga 2150
```

<210> 84

<211> 601

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (505)

<223> n equals a,t,g, or c

<400> 84

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gccgtnacac cccacacact ccagcctcgg ccccaactcct tgggctctta aggtcctgcc 120
tcaagaacca cttcctgagt cttagtgtat gtgtgtacaa aagaatgaaa gaagtctcta 180
gagctaaagg aaggagatyc gggctgggct gagaagcatc ttccaggatc acggscttcc 240
cgcgggacac accaagccca ttccggatct tgctcttcct gaccatggyt ggcaggytgt 300
ggaggaggas cggagagcag aagaaaggag tattcatcag gttccttatt gtgctgccac 360
tagatgccag gcatgtgctt aggcttgggg ggctgcaagg agaggaagac agcggccctg 420
ccctytgyta gcaggcagaa ccgagttytg gccacamtgt gaaggaaagg cagaagcctg 480
cgktggcary tggtttaagc tcagngggca gggaaagggg agaggagaat ggttttcacg 540
gagcagaagg ttgtgctcaa ggtggacctt ggagaataaa ggggagagct ccagggaaca 600
g 601
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<210> 85

<211> 534

<212> DNA

<213> Homo sapiens

<400> 85

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cgcgctgacg ttcctcctaa ctctgcccag aaacrgctct cctcaacatg agagctgcac 60
ccctcctcct ggccagggca gcaagcetta gccttggtt cttgtttctg ctttttttct 120
ggctagaccg aagtgtacta gccaaaggag tgaagtttgt gactttggtg tttcggcatg 180
gagaccgaag tcccattgac acctttccca ctgaccccat aaaggaatcc tcatggccac 240
aaggatttg ccaactcacc cagctgggca tggagcagca ttatgaactt ggagagtata 300
taagaaagag atatagaaaa ttcttgaatg agtcctataa acatgaacag gtttatattc 360
gaagcacaga cgttgaccgg actttgatga gtgctatgac aaacctggca gccctgtttc 420
cccagaagg tgtcagcatc tggaatccta tcctactctg gcagcccatc ccggtgcaca 480
cagttcctct ttctgaagat cagttgctat acctgacctt tcaggaactg ccct 534
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<210> 86

<211> 1037

<212> DNA

<213> Homo sapiens

<400> 86

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tgctgactca tctatagaag gaaactacac tctgagagtt gattgtacac cgctgatgta 60
cagcttggtgta cacaacctaa caaaagagct gaaaagccct gatgaaggct ttgaaggcaa 120
atctctttat gaaagttgga ctaaaaaaag tccttcccca gagttcagtg gcatgcccag 180
gataagcaaa ttgggatctg gaaatgattt tgagggtgttc ttccaacgac ttggaattgc 240
ttcaggcaga gcacggtata ctwaaaattg gggaaacaaa caaattcagc ggctatccac 300
tgtatcacag tgtctatgaa acatatgagt tgggtggaaaa gttttatgat ccaatgttta 360
aatatcacct cactgtggcc caggttcgag gagggatggt gtttgagcta gccaatcca 420
tagtgctccc ttttgattgt cgagattatg ctgtagtttt aagaaagtat gctgacaaaa 480
tctacagtat ttctatgaaa catccacagg aaatgaagac atacagtgta tcatttgatt 540
cacttttttc tgcagtaaaag aattttacag aaattgcttc caagttcagt gagagactcc 600
```

aggactttga caaaagcaac ccaatagtat taagaatgat gaatgatcaa ctcatgtttc 660
tggaagagc atttattgat ccattagggt taccagacag gcctttttat aggcatgtca 720
tctatgctcc aagcagccac aacaagtatg caggggagtc attcccagga atttatgatg 780
ctctgtttga tattgaaagc aaagtggacc cttccaaggc ctggggagaa gtgaagagac 840
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aagaggattc tttagagaat ccgtattgaa tttgtgtggt atgtcactca gaaagaatcg 960
taatgggtat attgataaat tttaaaattg gtatatattga aataaagttg aatattatat 1020
atagttaaaa aaaaaaaa 1037

<210> 87

<211> 597

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (582)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (586)

<223> n equals a,t,g, or c

<400> 87

gcggccctac tactactaaa ttcgcggcnc gtcgacaagg agtcctgctt atcacaaatga 60
atgttctcct gggcagcgtt gtgatctttg ccaccttcgt gactttatgc aatgcatcat 120
gctatttcat acctaattgag ggagttccag gagattcaac caggaaatgc atggatctca 180
aaggaaacaa acaccaata aactcggagt ggcagactga caactgtgag acatgcactt 240
gctacgaaac agaaatttca tgttgacccc ttgtttctac acctgtgggt tatgacaaaag 300
acaactgcca aagaatcttc aagaaggagg actgcaagta tatcgtggtg gagaagaagg 360
acccaaaaaa gacctgttct gtcagtgaat ggataatcta atgtgcttct agtaggcaca 420
gggctcccag gccaggcctc attctcctct ggcctctaata agtcaatgat tgtgtagcca 480
tgcctatcag taaaaagatt tttgagcaaa maaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa angggnggcc gctctag 597

<210> 88

<211> 474

<212> DNA

<213> Homo sapiens

<400> 88

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cctgtaggcc tttgactcct gactcaccct gtctgcagtg tccccagcc tgcaggggtg 120
ggtgwgtcac agcaaccctc agccaccagc tgttttccat ctgccggcct tcctggggga 180
gagtccttc cagctgtagc ccctgtctat gggaaaagtc tcatgtcctt ttcattcttc 240

cccactgcac actgtctctc accctagact ataattcaag tgaatttgac ctccatttat 300
tggacaagcc aggsactgtg ctaggrataa tgwaaacat tagacaaatc tgaaagggag 360
ggatcactag actaaggggt agaaatgtgg agatgggagt aactttctgc atgtctttgc 420
aggaggcggc atgtgagaaa gctttttgga agaggcggca cctggagctg tgga 474

<210> 89

<211> 1537

<212> DNA

<213> Homo sapiens

<400> 89

agactttgaa atcagaggaa ttccagaaga ggctgcaccc ttataaggat tttatagcta 60
ccttgggaaa actttcagga ttacatggcc aggacctttt tggaatttgg agtaaagtct 120
acgacctttt atattgtgag agtgttcaca atttcacttt accctcctgg gccactgagg 180
acaccatgac taagttgaga gaattgtcag aattgtccct cctgtccctc tatggaattc 240
acaagcagaa agagaaatct aggtccaaag ggggtgtcct ggtcaatgaa atcctcaatc 300
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acactactgt gagtggccta cagatggcgc tagatgttta caacggactc cttcctccct 420
atgcttcttg ccacttgacg gaattgtact ttgagaaggg ggagtacttt gtggagatgt 480
actaycggaa tgagacgcag cacgagccgt atcccctcat gctacctggc tgcagcccca 540
gctgtcctct ggagagggtt gctgagctgg ttggccctgt gatccctcaa gactggtcca 600
cggagtgtat gaccacaaac agccatcaag gtactgagga cagtacagat tagtgtgcac 660
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actttggcca ttacccccag ctttgaggaa aatgggcttt ggatgattat tttatgtttt 780
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agtccagcc ttctctcaag gagaggcaaa gaaaggagat acagtggaga catctggaaa 1200
gttttctcca ctggaaaact gctactatct gtttttatat ttctgttaaa atatatgagg 1260
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caacacatca ggaaagagag cmccacgtga wggagttyt ctagaagcty cagtgataag 1500
agatgttgac tctaaagtg atttaaggcc aggcattg 1537

<210> 90

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<400> 90

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tgacaccatg cctggttaat ttttttaatt ttnattttca gtagagacaa ggttgcgcta 60
tggtgcccgg gctggatatg aactcctgtg cttaagcggg cctcatgcct cggttccca 120
aagtgcagag gttgcagcta tgagccaccg caccagcct acattccttc ttatcaccga 180
gaaacagggt gatcttcaca ggtgtaatga gtatgaaggg agtgccataa agatattttt 240
tattttttat ttatttattt tttaatttaa tttttttttt tttgggatgg gngtcttgct 300
ctgg 304
```

<210> 91

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<400> 91

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tccttcacc tcattctccc caagaactgg gattacaggc atgagcaact gcacctggc 120
catatgcttc ttatagttga agaagtgaag ggtcaatgac ttactaaaa tactattaaa 180
gtaataaagc taggacttag ccccaattat tcaccttaa agtccaatac tttcaatata 240
ttaagttgct ctttattata tgaattctaa atatctttt taccctttgt tatctaattc 300
ggaaatccta tataaatgta taattttata catgctgact gatatccyct ctagtcttgc 360
tataactagg 369
```

<210> 92

<211> 315

<212> DNA

<213> Homo sapiens

<400> 92

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gctttttacc ctctccaaac cttctaacc tagcttcatg aatttatgtt actcgccatg 60
agggtctct ataaatatat acatttgtaa cttctgttta atataaataa atcattcttc 120
atagcaagga ttctggcatc agttggagat tctttggatg gatgtgctcc catggagttt 180
ctattttaat gtactaaca cttatgactc gtctatctgt agtatcaatt atatccacta 240
tcacagtaac agtcaccact taatatgyat agratatctc attttaccac gcaattatgg 300
tatctctgat ttata 315
```

<210> 93

<211> 701

<212> DNA

<213> Homo sapiens

<400> 93

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aatgtcaaaa atgactcacc ttttaaaaat tatgcatgaa aacagggtgg aaacattcag 120
taatacgcta tttctccaac atcaagacaa ctaaaacaaa tgataaaaat gtttattttt 180
```

acactccagc atatcgggtg agtttttaggg atgtgtatga atattttaa attttaattt 240
cagttttaat gaaagctgaa cttaataggg aaagctagct cttggtaact agcaatgatc 300
aggcattgtt tgcctctgtc aggttttctt atctgtttta ggtacatttt ttcagattct 360
gattgtttga gttaatgggt gaatttttaa agtttttagt tacttaaaat akgtatttta 420
atrrcatatt aatttagaaa attcctgtgt ttacttatat tttaaattgt gaaatggatc 480
caatcattag aacagagaga atagtctctt gaaactgaaa tacttttagt ttactgacct 540
tgtgtaaaga taatatgaag aaccagcttc caaaagaaac cagcatatgg cactataaac 600
tatttcattt gagcaccatt ctttaccatg gatataatga ttatgtatta tagtggagtg 660
atcatacagk tcccccaaat gtgatgggtc aagggaattt a 701

<210> 94

<211> 459

<212> DNA

<213> Homo sapiens

<400> 94

cgggcaactc tctggcatcc ttaatatctt tctatagaaa ttgtgatgaa agaacagata 60
agcctaagta aatctagcgt gtggagctcc tttaaaatgt gaagaccctg ccawctgggt 120
aaaaataaaa cttgggttttgc tctaaatat ccttgctggg cctattatac ataaaaaaag 180
gggccacagc ccatttgcaa ggcttctgaa tgaactccat tcattctgta cttggaaatg 240
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gaagaagagc caagagacca ttatgaaaac tctagtaagt tctcttgggtg attatataat 360
gctgtawtca ttgatcatat tkctgtattt aaataagtag atttttttaa acatcataaa 420
gtggatcagt aatgctgtaa tatcacattt catgtatta 459

<210> 95

<211> 2589

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1056)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2568)

<223> n equals a,t,g, or c

<400> 95

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cagtactga ggcctggacc cagaggtgga ccaggcatct cctggccacc tgtgacctgg 120
gaagaagcga gtcagtggcc cgttcaacct gctctgcagc tgctataaat agcctccctg 180
tttccaagag gaggttaagga agtggtttatc ttctaaaaac cagacgtttc ctgatgctct 240
gagcgttact cagtgtctaca gaggagatgc acacgtcccc actatgttct gtcttgagaa 300
ggggacaaga gaaagaggaa aaggagccac tgtactttat tttgcacctc cagcgtgcct 360
tggcactggg ctagagaggg accttcctgc gtgaatcctg tgcggcaggc cttattgcc 420
taataagtca catcaaagac actgctgggc ataaaaact gttttacata ccatagggaa 480
aaacgtgcc aatcttaact aagatgttac aactgtacag ttccttccaa tcagagatgt 540
tcacgtgtga aaaaaaaact gtgctactta caatctatga aagctggtrt tatcccactt 600

ggcaggtaag ggaactgagg tcctgtgagt gaagtgacct catgatcaca caacaggaga 660
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aggaattc 2589

<210> 96

<211> 457

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<400> 96

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ggggctgttg gwgactctgc ctacagcacg gggcrtgtgt ccaggctgar cccgctgagc 180
gtcgacacag tcgctgttgg cctgggtgtcc agcgtgggtg tctatcccgt ctacctggcc 240
atsctctttc tcttcyggat gtcccggagc aaggttatca atactctggc tgacctcgt 300
catcgtggga ctgactttgg tggaagtcct tggttactta tcattaactg tgtttctgag 360
aagttataaa tntggcatct cctnctgcac aacttacctt tgggttataa taatctggtg 420
accatcgtca cgttggtactg antttggggg aagcctt 457
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<210> 97

<211> 516

<212> DNA

<213> Homo sapiens

<400> 97

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attgtgggca tgagctgctg tgcccagcct ccatgtttta atatcaactc tcaactcctga 180
attcagttgc tttgccaag ataggagtgc tctgatgcag aaattattgg gctcttttag 240
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cctttaatgg ctccctctt tcactcctg agtatgtaac ttgcaatggg cagctatcca 360
gtgacttggt ctgagtaagt gtgttcatta atgtttattt agctctgaag caagagtgat 420
atactccagg acttagaata gtgcctaaag tgctgcagcc aaagacagag cggaactatg 480
amaagctctc ctgccatctc caagcccact tttcag 516
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<210> 98

<211> 314

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<400> 98

ggagaccgcg cgcgggacgg ggaggaatgg cctgtccgcg ttaaaccatc acaagccatg 60
gttgcggaag ggccacgcgt ccccagtag gagaatgact ccgattcgtg accctcagcg 120
ccggtgcatg tcgatcttgg ccccagggc tgtgatgcag ccagccaggt ctcagggaga 180
gggaaccacg aagcctggca tgctggccaa aggagtcaag gaaacttttg agctatttac 240
agctttagtc aattatgtaa agnatactcc nctgaacaaa atttggagca tgtttgttnc 300
tctctacctg attt 314

<210> 99

<211> 679

<212> DNA

<213> Homo sapiens

<400> 99

agttgttccg tgtaggctgt tgttgactct cgtatgaaag cccacgcgat ccaagtgcc 60
tgcaggtttt ggtccaggga aaagttggtc tctgcagatg actgtaaatg actacctgga 120
ggtcgattaa agtgcggtac tgcgggattc arccgatttc cttcttctc tgactgccc 180
gaaatatcag ccaaaggcca gcgttctaag gacatatgga attggctatg gataattcat 240
atgctttcaa tcaacgaagc acatgtaatg gaattccatc tgagaagaaa aacaacttcc 300
ttgtatcaga agatcatgga caaaaaatct taagtgtact acagaatttt agagaacaaa 360
atgtctttta tgatttcaaa ataattatga aagatgaaat aatcccgtgt catcgttgtg 420
tgtagcagc atgcagtgc tttttcaggg ctatgtttga agtaaactg aaagaaagag 480
atgatggaag tgttaccatt actaatttgt cctccaaggc agtaaaagca tttctcgatt 540
atgcctatac tggaaaaaca aaaataacag atgataatgt ggaaatgttc ttccagttgt 600
catcatttct tcaagtttcc ttcctatcca aagcttgagc tgacttttta ataaaaagta 660
ttaatcttga aaaaaaaaaa 679

<210> 100

<211> 599

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (584)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<400> 100

aattcggcac gagtctcacc cctcggagac gctcgcccga cagcatagta cttgccgccc 60
agccacgccc gcgcgccacc accatgctag gtaacaagcg actggggctg tccggactga 120
ccctcgccct gtccctgctc gtgtgcctgg gtgcgctggc cgaggcgtag ccctccragc 180
cggacaaccc gggcgaggac gcaccagsgg agggacatgg ccagatacta ctcrgcgctg 240

cgacactaca tcaacctcat caccaggcag agatatggaa aacgatcyag cccagagaca 300
ctgatttcag acctcttgat gagagaaagc acagaaaatg ttcccagaac tcggcttgaa 360
gaccctgcaa tgtggtgatg ggaaatgaga cttgctctct ggccttttcc tattttcagc 420
ccatatttca tcgtgtaaaa cgagaatcca cccatcctac caatgcatgc agccactgtg 480
ctgaattctg caatgttttc ctttgtcatc attgtatata tgtgtgttta aataaagtat 540
catgcattca aaaaaaaaaa aaaaawaaaa aaaaaaaaaa acnnngggggg gggcccccgn 599

<210> 101

<211> 1189

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (232)

<223> n equals a,t,g, or c

<400> 101

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gcgggaggag ataagcaagg acctcagagc cactactgaac gccttcctgt accacatggg 120
ccaacacagc aacaaattca tgctggtcct ggccagcaat ctgcctgagc agttcgactg 180
tgccatcaac agccgcattg acgtgatggt ccacttcgac ctgccgcagc angaggagcg 240
ggagcgcctg gtgagactgc attttgacaa ctgtgttctt aagccggcca cagaaggaaa 300
acggcgcctg aagctggccc agtttgacta cgggaggaag tgctcggagg tcgctcggct 360
gacggaggggc atgtcggggc gggagatcgc tcagctggcc gtgtcctggc aggccacggc 420
atatgcctcc aaggacgggg tcctcactga ggccatgatg gacgcctgtg tgcaagatgc 480
tgtccagcag taccgacaga agatgcgctg gctgaaggcg gaggggcctg ggcgcggggt 540
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tggtgtgtgc ccagggcctc tgtccccccag gatgtcttgt ggtggcggtc ggccgttctg 720
ccccccaggg caccctctgt tgtaggcact ggctagggag gggcaggcct ccttcctgcc 780
cctcgagaca ctcttgaggag atgcattttc cgtctggctc acagggggag ggtgaggctt 840
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1189

<210> 102

<211> 251

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<400> 102

gccaatttga tgaagtgcaa agttcaggcc ggtatgattt tnagtgtctg caaagataaa 60

agcttcgatg atgaagaatc agtggatgga aataggccat catcagctgc atcagccttc 120
aaggttcctg cactaaaaca tccggaaatc ctgccaacag tgcaaggaaag ctgggttcagc 180
aggtggccct aaggttkgag gttstaaatc catttcaatc tgtratgctg gtccatggcc 240
ttgatattgg c 251

<210> 103

<211> 458

<212> DNA

<213> Homo sapiens

<400> 103

gggaggttt ctgaattatg ggggcaacat ggggagactg ggctttctgt ggaccatgac 60
agctccgcag ccgtgctggg ctccctcagct ccactgtcag ggctaggaat tggccacaga 120
acccccagag ccaaccctgg ggcccactag gaccccaaac acctgtgttt tcattctgcg 180
tggcctcctg gttccctgga gttctttttt atgctgcctc tgggtgtgagg tcctcagcat 240
ttaatttggt ctaagtttaa aagctgcaag agcaaaacag aacccccaaa gcctggggcc 300
cacagctgct gcggtgatc agagatacga cccagagga ccacgtccac cargggccgg 360
atggacagcc acctattttg tamtccttgt ttcaaaagca acaatagcaa ataacattcc 420
aaaagttcta tgatragact tcaagacact aggattta 458

<210> 104

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<400> 104

tgtgtgtccg cgcaggcgag caccgcgcgc gccctgagcc tcccgtctgc tccccacggc 60
cgcggtgcat gttcgctctc tgccactgtg tgccgagagg caggaggacc atgaaaatga 120
tccactttcg gagctccagc gtcaratcgc tcagccggag atgagatgca ccatccggct 180
gctggacgac tcggagatct cctgccacat ccagagggaa accaaaagggc agtttctcat 240
tgaccacatc tgcaactact acagcctgct ggagaaggac tactttggca ttcgctatgt 300
ggacccagag aagcaaaggc actgggcttg aacctaacia gtccatcttc aagcaaatgn 360
aaactcatcc accatacacc atgtgcttta gagtgaattt anccacatga acccttgaag 420
attaaagaag actcacaag 439

<210> 105

<211> 233

<212> DNA

<213> Homo sapiens

<400> 105

tcccaaagtg tggggattat aggcattgagc cactatgccc agcctacttt tgtttttaag 60
aaattgaaac gatatagaaa agtacaaaga acaacctaata aaacactcat attcccacca 120
ctcagaatta tcaacttttt atcattttat catatttgct tcagatcttt ttttttttta 180
aagaaaagta taacagattt agctaaagta ccctttgacc aataccccac ccc 233

<210> 106

<211> 704

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<400> 106

ggcagcgggtg gccgaggcct cttggttctg cggcacgtga cggtcggggc gcctccgcct 60
ctctcttttac tgcggcgcg ggcgaagggtg gcgggcgga aggggcacgg gcacccccgc 120
gggtccycggg aggctagaga tcatggaagg gaagtgggtg ctgtgtatgt tactgggtgct 180
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tgaccttgac gatgtcattg aagaggtaga agactcaaaa ccagatacca ctgctcctcc 300
ttcatctccc aaggttactt acaaagctcc agttccaaca ggggaagtat attttgctga 360
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cgatgatgaa attgccaaat atgatggaaa gtgggaggta gaggaaatga aggagtcaaa 480
gcttccaggt gataaaggac ttgtgttgat gtctcggggc aagcatcatg ccattctctgc 540
taaaactgaac aagcccttcc tgtttgacac caagcctctc attgkctcagt atgaggktaa 600
tttccaaaat ggaatagaat gtggtggtgc ctatgtgaaa ctgctttcta aaacaccaga 660
actyaamctg gatmakgts agaggactat aaactgcctt catn 704

<210> 107

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<400> 107

ggaatacccc ctcacttctg tggtttcttt cctgtagtag acgatcaagg gtggaatcta 60
cagtcctatgg gccctgactt cttgccttcg tctcaaatag actctgcagc cagccatcta 120
tgcagcgccc cagtggcttt gaaatgcaac agaaaccatc acccccggac catgggctcc 180
atgccagtgg gcaaagcaca ggtgcgttca ctgagttccc agcacatagc tgtggcaggc 240
acttggtgat attttgaaat aaaagaatgg aagaatgtgt ccaagctgtg cttccccttt 300
ctaccttact cagggacatg gtgccctcct ctctggttyc ctgccctgtg ccamcccccg 360
scccctgcaa gcacagytct tatgtgcaaa gccctgtaa gtgctggagg gattactgat 420
ggcttngggg aagtggcaat gggat 445

<210> 108

<211> 592

<212> DNA

<213> Homo sapiens

<400> 108

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acaaaaactg cacaaagata gaaacagggg cttctgtgct ccttgagctt cacgtgttaa 60
cctggctccc cagaccaaag accaacaccg cagggtgagt tcatcctctg ccaacagcaa 120
tctttccctt cctctgaggc cagccatccc catcccagga ggcaggggaa gcaagcccgg 180
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agtaaatac acttcataga ctttatttac cttaaaaaat tcctgagttc attcatgtct 420
ccaaaccact agagaacctg aaaattcacc aggaaattgg gcaactgcaa gttatcctgg 480
agactccaga gtcaacactt cattaaatga gaacaatctg gttcatgcgt tgaagctgtt 540
acagtaatca gggcgacatg ggcaggggaa gcgatttttc tgaagctgtg cc 592
```

<210> 109

<211> 381

<212> DNA

<213> Homo sapiens

<400> 109

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gtcattataa gagatatatg gggaggatat aaataccaga ataaaaagat aaaagagatg 120
aaaatagtag tctctgggga gctaaagtct aaaatacaaa ggtgtgaggc agaccttata 180
tactacttaa cttgtatact atttatagcc cagtattctg ttttctagac ctgtccaggt 240
gttaagggat ccaatctatg aaccagcaga gacccaatga ctaaagmcaa actttgctgc 300
aactgaaat cacctggggg aatcttttaa aaagtactga cgcttgactc ccaccacaaa 360
acagtctgat ttaattgggc a 381
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<210> 110

<211> 351

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (322)

<223> n equals a,t,g, or c

<400> 110

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attggtcggg acctgaagcg ttgagggttaa gggcaaggca aggagcaacg aggagttttt 120
cgttacgtta gaaaaatttc gttgcgtgct gaaagcgctt ttacctgtgt tgtatgattt 180
aaccttatga aatggacag tatttccagt ttacaagtg aggaaagaag attaagaaac 240
ttgcctccgc cangcgtggg ggttcaactc ctgtaatccc agcactttcg gcggccgaag 300
caagcggatc acttgaggtc angagttcga agaccagcct gggccaaaca t 351
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<210> 111
<211> 1583
<212> DNA
<213> Homo sapiens

<400> 111
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ccggcgcggc gcggtgccc tcggggtgg cccggctgct gtcggcgctc ttctacggga 120
cctgctcctt cctcatcgct cttgtcaaca aggcgctgct gaccacctac ggtttcccg 180
caccaatttt ccttgaatt ggacagatgg cagccacat aatgatacta tatgtgtcca 240
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ctcwgccctt cctctacgtt ggaaaccaca taagtggatt atcaagcaca agtaaattaa 360
gcctaccgat gttcacctg ctcaggaaat tcaccattcc acttacctta cttctggaaa 420
ccatcatact tgggaagcag tattcactca acatcatcct cagtgtcttt gccattattc 480
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tattcctgaa tgatatcttc acagcagcaa atggagttaa taccaaacag aaaatggacc 600
caaaggagct agggaaatac ggagtacttt tctacaatgc ctgcttcatg attatcccaa 660
ctcttattat tagtgtctcc actggagacc tgcaacaggc tactgaattc aaccaatgga 720
agaatgttgt gtttatccta cagtttcttc tttcctgttt tttggggttt ctgctgatgt 780
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tcaagaatgt atccgttgcc tacattggga tattaatcgg tggagactac attttctctt 900
tgttaaacct tgtagggtta aatatttgca tggcaggggg cttgagatat tcctttttta 960
cactgagcag ccagttaaaa cctaaacctg tgggtgaaga aaacatctgt ttggatttga 1020
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ttcccagtag gaatgtgaag ccagagggtt cggattcgtg acatccaccc cctgggcaag 1140
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ctcaagaaat gtactcgggc gacaccttac ctgtggaaag caaatctttt caaaataagc 1260
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acagacatgt ctttagtcta ataaaattag ttaactgcca gtaaagttaa ttgttagctt 1500
tgatgaaagc tatgttggtt tctttcccta atcatcaaag taaataaaaa atcatttcta 1560
aaaaaaaaa aaaaaaactc tga 1583

<210> 112
<211> 431
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 112

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agggaaagtt tccaagcttt aggaagaatt attttttttc aagacgctgt cttccgtact 120
ttcgttatta aacatacggc tcaagtgate accggtatag acagtacat cagacatctt 180
tcattagccc tactcaaaaa tggcggcaac gtaatatcct gggccggagt cggttgtaac 240
ccggaagtgc ctttgtaaaag gaggggtggg tagacaatcc ggaartggat ggaatgaaga 300
gatgccactt ggcgccccat ggacgctgtt agtatcggcg actccgggtm aaggcccgkt 360
csagttgcat taccatgggg cagcaccngg ttttaggggc agggacantt ttgtgttca 420
anttgttgct g 431
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<210> 113

<211> 2842

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2040)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2603)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2656)

<223> n equals a,t,g, or c

<400> 113

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cactatgtcg tccccggcgt cgaccccgag ccgccggcgg agccggcggt gaaggccac 120
ccccgcccag acgcctcggg gtgaggatgc caggatcatc ccctctcaga gacgtagagg 180
cgaggattcc acctccacgg gggagttgca gccgatgcca acctcgccct gaggaggacct 240
gcagagccct gctgcgcagr rcgtgctgtt ttccagccct ccccaaattg attcttcagc 300
tatccctctt gactttgatg ttagttcacc actgacatac ggcaactcca gctctcgggt 360
agaggggaacc ccaagaagtg gtgttagggg cacacctgtg agacagaggc ctgacctggg 420
ctctgcacag aaggccctgc aagtggatct gcagtctgac ggggcagcag cagaagatat 480
agtggcaagt gagcagtcct taggccaaaa acttgtgatc tggggaacag atgtaaatgt 540
ggcagcatgc aaagaaaact ttcagagatt tcttcagcgt tttattgacc ctctggctaa 600
agaagaagaa aatgttggca tagatattac tgaacctcta tacatgcaac gacttgggga 660
gattaatgtt attggtgagc cttttttaa tgtgaactgt gaacacatca aatcatttga 720
caaaaatttg tacagacaac tcctctctta cccacaggaa gttattccaa cttttgacat 780
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tgaccagctc atcaccatca gcggcatggg gatcaggaca tcccagctga tcccagagat 960
```


gcaggaggcc ttcttccagt gccagtggtg tgccacacg acccggtg agatggaccg 1020
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gcatcgtgga catatctatt ctactacgg ggatgagtgc cacctctcgt aaacggaaa 2460
aagaattagc tgaagcattg aaaaagctta ttttatctaa gggcaaaaca ccagctctaa 2520
aataccagca actttttgaa gatattcggg gacaatctga catagcaatt actaaagata 2580
tgtttgaaga agcactgcgt ccnctggcag wtgatgattt cctgacagtg actgggaaga 2640
ccstgcgctt gctctngaag ccttgtagc aaggaaggct ccctgcatgt cctgcttget 2700
gcacgccaca tgggtgtggt ctgcatctca gttggcgcc atcagtgtaa atagagctta 2760
aagtcatggt ttggctgcat aaaaattttc taacttgggt tcaatatttg tagtgaagta 2820
tctgttttca tttttttcac gt 2842

<210> 114

<211> 268

<212> DNA

<213> Homo sapiens

<400> 114

attttgcgtc tgggtgggtg ggctacagca ggcctctgga gccacaccag ggcacgggag 60
tgggtgcagg gaccgtcacc gcgccttcac acgcaccata gtgcccggct aattactctg 120
cttttatgag ccaagggtgtt cccgaaagtg garccagcgc cagcggtctc yaaggtctcc 180
ataccacagc ttcgtccctg cgggtgccccaa aagccttgcg cgcattttgc atttgggaaa 240
aaaagtcctg aatgcgaacg tcacccca 268

<210> 115

<211> 800

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (673)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (794)
<223> n equals a,t,g, or c

<400> 115
gcgctcggggc ttcgaggcg tgcgggcttc ggaggcgtgc gggcttcgga ggcgwgcggg 60
cttcggagggc gtgcggggctt cgggtgccat ggggactcct cccggcctgc agaccgactg 120
cgaggcgctg ctccagccgct tccaggagac ggacagtgtg cgcttcgagg acttcacgga 180
gctctggaga aacatgaagt tcgggactat cttctgtggc agaagagaa atttagaaaa 240
gaacatgttt acaaaagaag ctttagcttt ggcttggcga ttttttttac ctccatacac 300
cttcagatc agagtgtgtg ctttgtatct gctatatgga ttatataata cccaactgtg 360
tcaacaaaaa caaaagatca gagttgccct gaaggattgg gatgaagttt taaaatttca 420
gcaagattta gtaaatgcac agcattttga tgcagcttat attttttagga agctacgact 480
agacagagca tttcacttta cagcaatgcc caaattgctg tcatatagga tgaagaaaaa 540
aattcaccga gctgaagtta cagaagaatt taaggaccca agtgatcgtg tgatgaaact 600
tatcacttct gatgkattar aggaaatgct gaatggatc gatcattatc agaacatgaa 660
catgtaattc agntgataaa gtccaagcca gataaggcct taacttgata aaggatgatt 720
tttttgacaa tattaagaac atagttttgg agcatcagca gtggcccaaa gaccgaagaa 780
tccatcctta agncaaaaac 800

<210> 116
<211> 646
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (556)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (592)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (615)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (645)
<223> n equals a,t,g, or c

<400> 116

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aacaaaggca ttgccatcta caagaaggat ttcttctctgg tgcagaagct ggtgagctgg 60
gctctgtttc agggcacaatg agggccagga gctgcctgtg tgactttggg gctccctctg 120
ccagtgacca atccctctta aaaagcagtc aggtcaatgc tactgagtag cctcagagag 180
aatttcctaa acaatacaag aaagagaaag ataggtctct tttccctttt ggttctaagc 240
atcctttcct cacttcaggg taggggtggc aaagctctggg gtctcaatcc agaaggaggc 300
ctaagtgggc atcagactta aaataggcag gaggaagatg cggaggaggg tggcaaktg 360
aggtgagcca ttccccagag gaagatgcag ggggagggca ccctgggggtg aaggccactg 420
agagccagca agtgccctgcg gactgacctg ggggcctctg cccacttctt ttgaccaga 480
gttgccctcc agtaactcag ctgttcaagc ccacattccc taagatttat cttgtcctct 540
ctcccatatt cttctnggaa aagcagatgc tttgctaata ccaaggaatt gnattttttc 600
cagccctgtt ttcanaaaat ctggggcttt ggggaaaaaa aattnt 646
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<210> 117

<211> 1534

<212> DNA

<213> Homo sapiens

<400> 117

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gcgacctcgg ccataagcgc ctgctgcagtc gcggggccgc cggccgtgct gttcccgcga 60
attcctgtgg taatccttac cgtggcgagt tccgcgctca atggagacgt ttgaccacac 120
cgagctgccc gagctgctta aactttatta ccggaggctc tttccctact ctcagtacta 180
tcgctggctc aactacggtg gagtataaaa gaattacttt caacaccgtg aattttcatt 240
cacattgaaa gatgatattt acattcgcta ccaatccttc aacaaccaga gtgatctgga 300
aaaggagatg cagaaaatga atccatacaa gattgatata ggcgcagtat attctcacag 360
acccaatcaa cacaatacag tgaagctggg agctttccag gctcaggaaa aagaactggt 420
atttgacatt gacatgacag actatgacga tgtgaggaga tgtttagatt ctgcagacat 480
atgtcctaag tgctggaccc tcatgacaat ggccatacgc atcattgaca gagcattgaa 540
ggaggacttt ggatttaagc atcgtctctg ggtatattct ggaaggagag gtgttcattg 600
ttgggtctgt gatgaatcag ttagaaaactg tcttctgcar tacgttcygg gatagttgag 660
tatttgagcc ttgtaaaggg tggtaagac gttaaaaaa aagttcacct aagtgaataa 720
attcacccct ttatcagaaa atctataaac ataataaaaa aatactttga agaataatgcy 780
ttggttaatc aagatattct cgaaaataaa gaaagctggg ataagatttt agcccttgct 840
ctgaaacaat tcatgatgaa cttcaacaaa gcttccaaaa gtctcacaat tcacttcagc 900
gttgggagca cttgaagaaa gtagccagca gatatcagaa taacatcaaa aatgacaaat 960
atggaccctg gctggagtgg gagattatgc tccagtactg ttttccacgg ctggatatca 1020
atgtcagcaa agaatcaat catctactga agagcccttt tagtgttcat cctaaaaacag 1080
gtcgcattmc tgtgcctatt gatttgcaga aagtggacca gtttgatcca tttactgttc 1140
cgaccataag cttcatctgc cgtgaattgg atgccatttc cactaatgaa gaggaaaaag 1200
aggagaatga agctgaatct gatgtcaaac atagaaccag agattataag aagaccagtc 1260
tagcacctta tgtgaaagt tttgaacatt ttcttgaaaa tctggataaa tcccgaagag 1320
gagaacttct taagaagagt gatttacaaa aagatttctg aagacagagc tcctcaaacc 1380
attgtggata tcttctgcct tcaaccacag atcaataact tcaagagcca tttaataaat 1440
atggcagAAC tatatatgtg tcttaaacct caaagtaaat tttccttgag aaataaaaaa 1500
aaaaaaaaa aaaaaagtcg agactagttc tctc 1534
```

<210> 118

<211> 339

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (155)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<400> 118
tagatgaaga taatgaaaaa gaaaaaaggg actcttttagg caatgaagaa tctgttgata 60
aaacagcatg tgaatgtgta aggagtccaa gggagtcttt ggatgacctg tttcaaatat 120
gttctccatg cgccattgca agtggctctt ggaanacctg gctgaattga caacattatg 180
tttgagttg aatgtattga attctaagat caaaagcacc agtggracat gtgggaccac 240
actttgccaa cagtaactct cctgaaattc tgggcttgcc atttcctga aagaagtact 300
ttttcntcc ggaacttgga aaagagcgaa ggnagagta 339

<210> 119
<211> 665
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (616)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (656)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (665)
<223> n equals a,t,g, or c

<400> 119
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tggagagttt gattcatgca tgggagcatt tacttttaca gccaaagacc aaagggtgaaa 120
gtgctaattg tgaaaagtat gggaaagtta taccagcaag tgctgttata tttgggatgg 180
cagtagaatg tgcaagata agaagacatc atagagtggg tattaaggac attgctggta 240
tccatttgcc aacaaatgtg aaatttcaga gtccggctta ttcttctgta gatactgaag 300
aaacaattga accttataca actgaaaaga tgagtcgagt tcctggmggr tatttggctt 360
tgacagagtg ctttgaaatt atgasagtag atttcaacaa ycttcaggaa ttaaaaagtc 420
ttgcaactaa raarcctggt aaaattggta ttcctgttat taaagaaggc atattagatg 480

ctgttggtggt ttggtttgta ctccagcttg atgatgaaca tagtttatcc acaagtccta 540
atgaggaaac atgttgggaa caagctgtct accctgtaca tgaccttgca gactaccgga 600
taaaacgtgg ggaccngtga tgatggaatg tcttgtccaa gattgttact taagantcca 660
gaatn 665

<210> 120

<211> 622

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (544)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (603)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (620)

<223> n equals a,t,g, or c

<400> 120

gagggctgcg ggaggcgggg gaagaaagtg gggccggggc tgagttgggc tgacctgtga 60
aagtctggga aggtctgcca gagaagcggg gtgttttcag ctccggaagt ggcagttgta 120
aacttcacct cccgggggct cttccccttc tgtacccttc tgctgtttgt cccctcctc 180
ccgggtcctg gagtcgctg tgttccaaca gtttttgctc ttattcccgt gggctgctgg 240
gcctcctttc acccgtgaga cttggarcgg ccctggggtc ttgggtgtca agcacggatc 300
acgcgagacc cctgagacct caaatcatct aacgtgaagc cacagacatc ttggcaattt 360
taatcatcaa gaaagaaata tgcatthaag aaatagcagg gtattttgaa agaagttgga 420
aaacatcatg aatttgaata ctttaagtaa tactgggtgat acccaaaggt tgaagattgc 480
ctcattggat gtaaaacaaa tacttaaaaa tgaaacagag ttggatatta ctggataatc 540
tcangaagaa actccattgg gctaaaaaag aaaagtntga aataccacca accccatgga 600
aancttgcaa gctntgaagn ca 622

<210> 121

<211> 889

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (817)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (830)

<223> n equals a,t,g, or c

<400> 121

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ggctgaagcc atccccttgg ctgatcagcc acatctgttg cagccaaatg ctagaaagga 60
ggatcttttt ggccgtccaa gtcagggtct ttattcttca tctgccagta gtgggaaatg 120
tttaatggag gttacagtgg atagaaactg cctagagggt cttccaacaa aaatgtctta 180
tgctgccaat ctgaaaaatg taatgaacat gcaaaaccgg caaaaaaaag aagggggaaga 240
acagcccgtg ctgccagaag aaactgagag ttcaaaacca gggccatctg ctcgatgctc 300
tgctgcacaa ttaaaaagta gcttactagc agaaatagga cttactgaaa gtgaagggcc 360
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gctgctagga cgttggcgcc tttctttaga actgttcggc agggatttca tggaagatgt 480
tggagcagaa cctggatcaa tcctaactga attgggtggg ttgaggtaa aagaatcaaa 540
attccgcaga gaaatggaaa aactgagaaa ccagcagtca agagatttgt cactagaggt 600
tgatcgggat cgagatcttc tcattcagca gactatgagg cagcttaaca atcactttgg 660
tcgaagatgt gctactacac caatggctgt acacagagta aaagtcacat ttaaggatga 720
gccaggarar ggcagtgggt tagcacgaag tttttataca gccattgcmc aagcattttt 780
atcaaataaa aaattgccma atctagagtgt tatccnnaaa aaaaaatttn ggccccccca 840
aaaacccaaa aaaaaggggc caacccccaa ccaccaaagg gtttttttaa 889
```

<210> 122

<211> 132

<212> DNA

<213> Homo sapiens

<400> 122

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cttgagcccc tgagttgtgg gggtaggggtg aagagcatat cccacaagag gccccacagg 60
gagcagagac tgctttaatc cctgctgaca tcacggaaaa gcaacagagc cttttcaact 120
ttgtcactat gt 132
```

<210> 123

<211> 1900

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1879)

<223> n equals a,t,g, or c

<400> 123

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gaaatcacaa agattagaca cttttttaga taggtgttct tcagcaccac tgacaacacg 120
gttctgacag tatttcatga caatggatgg tgacagttct acaacagatg cttctcaact 180
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tgaggacagc atgaatgata atgaagacac aaatgggttca aaagaaagt ttcagagaaca 300
agatatatat cttccaatag caaacgtggc taggataatg aaaaatgcca tacctcaaac 360
gggaaagatt gcaaaagatg ccaaagaatg tgttcaagaa tgtgtaagt agttcatcag 420
ttttataaca tctgaagcaa gtgaaagggtg ccatcaagag aaacggaaaa caatcaatgg 480
agaagatatt ctctttgcta tgtctacttt aggctttgac agttatgtgg aacctctgaa 540
attatacctt cagaaattca gagaggctat gaaaggagaa aaggggaattg gtggagcagt 600
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aacttggtgc ccattaacag tgtttactact gttcatcgtg cctgttaatg tagttttagt 1440
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atatttaagt ttaatgtagt cctagtgtc ttgaaatggg gcccctttca tttggtacat 1560
gatttttttt caaatcatat cttcaagtac tatagtattc tcttacagaa gaggagtttt 1620
atagtctgat ggtaaatgtc ttcattttac ctttttaatt gaaatgtcaa gtttcctgtt 1680
acactatgga aaccaagaaa catcagacat cattgcgtgt acagaccttt tgcattgggtg 1740
agtggatgaa atggagaaca gagtgagtg tgtgaacggt gtgaaataga agccaacttc 1800
tagtatgctg tcttcatctc tgcaataaac taaacgtaaa taawrwaaaa aaaaaaaaaa 1860
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1900
```

<210> 124

<211> 1250

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (874)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1169)

<223> n equals a,t,g, or c

<400> 124

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gggcaagctt gccgagaaaa cgcagagggc atcctgtgag cagcaaacac atctgagcct 120
ggaaaagacg cagagaagta aaagatcaaa gtctgattgg caccggctcc cattccggct 180
ccagcctcca atccgacccc catttcggct gcagcctcgg acctagctcc ggccctcggg 240
ctatccgggt gcacccctcc tccctgttcc ggatcttata ttgcgccagc gcctactcca 300
ggatcccgta gccagacctc aagccatggc tggcccttc tccgtctgc tgtccgccc 360
cccgggactc aggtccttg ctttgccgg agcggggtct ctaccgctg ggtttctgct 420
ccgaccggaa cctgtacgag ctgccagtga acgacggagg ctgtatcccc cgagcgctga 480
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tgcacggctc tgcgacaaga ccacacccac tggttggacg ctatgcagc gtatccagac 600
tggcgtggac aaccctggcc accccttcat caagactgtg ggcatggtgg ctggagatga 660
ggagacctat gaggtatttg ctgacctgtg tgaccctgtg atccaagagc gacacaatgg 720
atatgacccc cggacaatga agcacaccac ggatctagat gccagtaaaa tccgttctgg 780
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caacaatgag aagagcttcc tgatctgggt gaatgaggag gatcatacac gggatgatctc 1140
catggagaag ggtggtaaca tgaagagant gtttgaaaga tctgccgagg cctcaaagag 1200
gtrgagagac tatgtagggg actaggtggg aggacataag gaaaacccaaa 1250
```

<210> 125

<211> 1189

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1041)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1144)

<223> n equals a,t,g, or c

<400> 125

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cttttttttaa cccttttaggt atctgatcgc tttgccaaatt ttgcgttact gggcaggcta 60
agagatcttc ttttaattca gcctgcttaa gacgggaact gataactgta gtgtatcctc 120
tgcctttttt cttatctatt ggaggaagct cagatggtgt cacaagaagg atctgaagtg 180
gagcttctag tatccccagg agcgcgaagt gaacacggaa ggtacctgca ggatccaatt 240
gtgtccattg atctctcaga gtggctgagg ataataagat ttcttcttca aggtctcaag 300
gtctgaagca tcccacagaa tgatcctact gaataactcc cataagctgc tggccctata 360
```



```

caaatccttg gccaggagca tccctgagtc cctgaaggtg tatggctctg tgtatcacat 420
caatcacggg aacccttca acatggaggt gctggtggat tcctggcctg aatatcagat 480
ggttattatc cggcctcaaa agcaggagat gactgatgac atggattcat acacaaacgt 540
atatcgtatg ttctccaaag agcctcaaaa atcagaagaa gttttgaaaa attgtgagat 600
cgtaaaactg aaacagagac tccaaatcca aggtcttcaa gaaagttag gtgaggggat 660
aagagtggct acattttcaa agtcagttaa agtagagcat tcgagagcac tcctcttggt 720
tacggaagat attctgaagc tcaatgcctc cagtaaaagc aagcttgga gctgggctga 780
gacaggccac ccagatgatg aatttgaaa gtaaaactccc aactttaagt atgccagct 840
ggatgtctct tattctgggc tggtaaata caactggaag cgagggaaga atgagaggag 900
cctgcattac atcaagcgtc gcatagaaga cctgccagca gcctgtatgc tcggcccaga 960
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gcatggaaaa ataccgaaga ncaggcaaca tgggcacgag tgatggtgcg atacatggaa 1080
atatctgcgt cagaaggaat atttccattt ttacatctct gtgttgggaa ggaaantgaa 1140
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```

<210> 126

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<400> 126

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gaggtcctga gagactgtra gagccccaac tccattagta ttatgggcct caatacttcc 60
cggggtgcaa ttaccctgaa gcccgaagac cctatggaac agaacgtagc tgagctgttg 120
cagttcctgc tgggtgaagga tcagagcaag taccctatcc gggagtctga aatgcgggaa 180
tatattgtta aagaatatcg caaccagtgt cctgagatac tcaggcgagc agcagcccac 240
ctggagtgca tttttaggtt tgaattgaga gaacttgacc ctgaggcaca cacctacatt 300
ctgttaaaca aactgggacc tgtgcccttt gaagggtag aagagagccc aaatggggcca 360
aagatgggcc tcctgatgat gattctangc caaatattcc tgaatggcaa ccaagccaag 420
gaggctga 428

```

<210> 127

<211> 645

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (255)

<223> n equals a,t,g, or c

<400> 127

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acgcggtcgg ccgggagccg gggaggagcg tggacgccgg cctggcaggt acccccgcga 60
gaacgtggga gccggtgtat ttcagctgca tttattactg atctcgggct gcaccagggc 120
acttgtagga ccgcactaaa aacagcggaa agtgaggagc caagcctggg tccggggcgg 180
cccgcgtac agctggcctc acggattcca ctgcctgcgc ctgcagatga cttgttctgg 240
agagtagaga atgtntcgg atttaaagta caatccggtt tcctttccat tcattatagt 300

```

tgctacact caacaaacaa aagttgggaa agataaaggg attattctag cgcgtcacat 360
tgacaaacac cgacgttaac acgctcagtc cagcctgact cacttgcctc aggtcagaga 420
ggtcaccact gacgacgccg ggccctcaag ccgatacctaa tccagcttgg ttctctcagc 480
ctcagccaga ccatccgttc ttgcctctgt cccaccacgt gcaggtgtaa gytccgccg 540
cacttcttgt ctgaatctgc caaggaagga aactggcatc tttcagctta aattcttttt 600
cacttgatca ggggtaggag ttttaggcgt tttttttttt aagga 645

<210> 128

<211> 496

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<400> 128

ctggagtctc aacgacgcgc acacgagaag taaggagcgg aaggtgggaa agggccggaa 60
aacacacgtt cctccgaaac cggtttgcaa gtccttgtag agagtgatag attcgtgtgg 120
cctttcaaag gattgtgaag tgggtgaaat ggatccaaaa taataagtga cttctctacc 180
aaagcataga agattcttca tatctccttc cagtggctca atttagattt tgggaargag 240
cagaacaagt gaaacacaga aaactgaaga gaagaaatcc tcattttgga cctatatattc 300
tccttgacta tttcttaata tccatcctac ccatcgttct aatgttttaa ctttgctctg 360
aatttataaa tagtaaaggc caaagacata gaatatacat ttagtagctt tataccaaga 420
aatttgcctt gaaagctgct gtscgtggag gggaaagtgt agcaaattcc tggcnatttg 480
naattttaan ttattg 496

<210> 129

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<400> 129

ctggcgcccg caggagcgcg tgcggcgctgg actttgcccg gctcgccaca cagccccaga 60
cccgttttag accgggagac cgaacgcagc gwccagccgg ggagtttcgg cggcgcttctc 120

cgggcaccgc gcgcggaagc cagacgcagc ggggggacac atctcgcggt ggcgttgcca 180
gagtgaggag ttagcaggca ggacttgacg aggctctttg gtttttctag tcctcaacca 240
ctgaagaaga agcttgatgc ttggctgtca gaagacatga attacgcacg gttcatcacg 300
gcagcgagcg cancagaaac ccttctccca tccggaccat gactgacata ttgagcagag 360
gaccaaatac gatgatctcc ttggctgggtg gcttaccaa tccaaacatg tttcctttta 420
agac 424

<210> 130

<211> 1709

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (881)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1028)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1168)

<223> n equals a,t,g, or c

<400> 130

tggaccgcag cttcctggaa gacacaaccc ccgccaggga cgagaagaag gtggggggcca 60
aggctgcccc gcaggacagc sacagtsatg gggaggccct gggcggcaas ccgatgggtg 120
carggttcca ggacgatgtg gacctcgaag accagccacg tgggagtccc ccgctgcctg 180
caggccccgt cccagtcgaa gacatcactc tttcgagtga ggaggaaagca gaagtggcag 240
ctcccacaaa aggccctgcc ccagctcccc agcagtgtct agagccagag accaagtggg 300
cctccatacc agcttcgaag ccacggaggg ggacagctcc cacgaggacc gcagcacc 360
cctggccagg cggtgtctct gtctgcacag gtccggagaa gcgcagcagc accaggcccc 420
ctgctgagat ggagccgggg aagggtgagc aggcctcctc gtcggagagt gaccccgagg 480
gaccattgct tgcacaaatg ctgtccttcg tcatggatga ccccgacttt gagagcgagg 540
gatcagacac acagcgcagg gcggatgact ttcccgtgcg agatgacccc tccgatgtga 600
ctgacgagga tgagggccct gccgagccgc cccaccccc caagctccct ctccccgcct 660
tcagactgaa gaatgactcg gacctcttcg ggctggggct ggaggaggcc ggacccaagg 720
agagcagtga ggaaggtaag gagggcaaaa cccctctaa ggagaagaag aagaagaaga 780
aaaaaggcaa agaggaagaa gaaaaagctg ccaagaagaa gagcaaacac aagaagagca 840
aggacaagga ggagggcaag gaggagcggc gacggcggca ncagcggccc ccgcgcagca 900
gggagaggac ggctgccgat gagctggagg ctttcctggg gggcggggcc cggcgggccg 960
ccaccctggg ggtggcgact acgaggagct ctaggccggc gtgggcagtg gccgccctgg 1020
ggcggggngc gtgcctgtca ctgcctgggg aggcatttgc ntctgtacca tcgcctttgc 1080

```
cgctgccccg tggctgccgt gtgcgcttct gagctggaag aggccgggca ttggtggtcc 1140
ccaggctggg ccctgcaggt gctgggcntt cagccyagtg tgagcctgct ctgcaagaag 1200
ggaggggaca gctggcttca gccaggctcg gtggacaccc tggccctctc ggggcagagc 1260
cgccagtgtt tctcagggat gtgactgagg cccaggaggg acctgtgagg gtctgtttac 1320
agaggctggg cagggggccgc ttggctgtgg ggtgtgcgct gccccggcac ctgcttgccc 1380
tccgcgctca tctggggccg cagcatgcct atggttccgc ttccggccgg gagccctgaa 1440
cacgggtgtg cagactcacc cttaaaggcg gcccaggccc cacgctagaa ggctggcgag 1500
accgaagcag catgtgaggc ctctcctggg agtgggggtt gtgtttccca cagtggcctc 1560
agctgcgccc ccgctcaggt gagcccgaag gcaggagccg ggaggcactc ctcccaaaca 1620
ctccactcag accataaagc actcctgttt cactctgaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaggcg cgcctcgcga tctagaacc 1709
```

<210> 131

<211> 866

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (683)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (740)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (813)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<400> 131

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ctcgctcgga ttggttcagt gcactctaga aacactgctg tggaggagaa actggacccc 60
aggtctggag cgaattccag cctgcagggc tgataagcga ggcattagt agattgagag 120
agactttacc ccgccgtggt ggttgagggg cgcgcagtag agcagcagca caggcgcggg 180
```

```

tccccgggagg ccggtctctgc tcgcgccgag atgtggaatc tccttcacga aaccgactcg 240
gctgtggcca ccgcgcgcgcg cccgcgctgg ctgtgcgctg gggcgctggt gctggcggggt 300
ggcttctttc tcctcggtt cctcttcggg tggtttataa aatcctcaa tgaagctact 360
aacattactc caaagcataa tatgaaagca tttttggatg aattgaaagc tgagaacatc 420
aagaagttct tatataattht tacacagata ccacatttag caggaacaga aaaaaacttt 480
cagcttgcaa agcaaattca atcccagtg aaagaatttg gcctggattc tgttgagcta 540
gcacattatg atgtcctgtt gtcctaccca aataagaactc atcccaacta catctcaata 600
attaatgaag atggaaatga gattttcaac acatcattat ttgaaccacc tyctycagga 660
tatgaaaatg gttcggatat tgnaccacct ttcagtgtt tctctcctca aggaatgcc 720
ganggcgatc tagtgtatgn taactagcac gaactgaaga cttctttaaa ttggracggg 780
acatgaaaat canttgctct ggggaaaatt gtnattgcc  agatatggga aagttttcaa 840
naggaaataa gggttaaaaa tgccca 866

```

<210> 132

<211> 1593

<212> DNA

<213> Homo sapiens

<400> 132

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gttgtagtga gctgagatca tgccactgca ctccaacctg ggtgacagag cgagactcca 60
tctcaaaaaa aaataaataa ataaataaat aaaaccttaa tttgatggtg gttttatgtc 120
tgccatttcc atttagattc aaagaatcct aagaataatg gtggagcaaa gcttattttt 180
ctgttttttg aatcttgtaa ggcatggtgc caaacccaat gaaatggtgc caaaaagtcc 240
tgcagctgga actagagcta gagtctaagg gttctgatcc ttagctccaa ggccttctca 300
taaactcett gacactttca ccctccaaca cagtcagtca gtctctgttt ttctggttgg 360
gtttctatat aaaactttcc attttgagta atgatctttc cctcttgctt tttcttctac 420
atattccaat aaagaccttt tttgtcttca actcctgtca cttggattcc aggacttctt 480
ccatccctca tgtttgttcc ttactttgcc agcctcggcc atttctgtat ccccttgctt 540
gggkttgctg ccctttatgc tcctamctca ccagggtaca ggaacatgaa gatggctata 600
tgcggtgca gctggttcgc tamgagagt tagagctgac acagcaactg ctgcggaac 660
cacaagaggg atcggtctg gaacgtcgt gaacgagagc agcctgcarg gsattattct 720
agaaacagt ccaggggagc caggacgtaa ggaagaggaa gaggaggga agggtagcga 780
agggacagcc ctctcagcct ctcaggacaa cccagttct gtcatccacg tggatgaatca 840
gaccaatgcc caaggccagc aararatgt ytactatgt ctgtctgaag cccagggag 900
ccttcccca gccctgagc caccttcagg gggcatcat gaaaagctt aaggaatagc 960
tgaggagcca gagatccaga tggtttgaag gccgcagagc cagaccattt cttccccagg 1020
tcctgaagtt tgagccaggc aagtggcagt gccctagtg ggcagccgtt gccaatggat 1080
gccttttaga gtggtgccga gagcagtgt gtccactctg gcctgggttt gcatcattct 1140
gcagactcta aagacttccc tttctgcca gactacattt tgtggggagc ctgaggactc 1200
tggtattctt gaggggatcc tggatgtgtg tgttcttgtt aaagaggctg ttatcaggct 1260
taacyataac cctcaagatc tgcttgacag tgattaaatc cttagctcac atccattccc 1320
atctttcggg ctcttaggc ccaaggatgg catgtgactg gtccctgcaa gggtcctttc 1380
tttgtcacca gccaaggcat tgataaccaa gtagccattt tcctcttaag gtttcctcta 1440
caacccaag gactttcatg attatcctca gggacaggat tggaggcatt gagcgtgttt 1500
attaacaaat tgtttttggt aataaataa atgcttgga aaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaactcg tag 1593

```

<210> 133

<211> 408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<400> 133

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tcctttctgac gtcaatgtga tggcggaatc gctgaaggat atggaagcag atgcgcagaa 60
actgtaccag ttaatctggc gtcagttcgt tgccctgccag atgaccccag cgaaatatga 120
ctccacgacg ctgaccgttg gtscggggcga tttccgcctg aaagcacgcg gtcgtatattt 180
gcgtttttgay ggctggacaa aagtgatgcc tgcgttgctg aaaggcgatg aagatcgcat 240
cttaccagca gttaataaag gcgatgctct gacgctcgtt gaacttacac cagcccagca 300
ctttaccaag ccgccagccc gtttcagtga agcatcgctg gttaaagagc tggaaaaacg 360
cgggtatcggc cgtccgtcta nctatgcgtc gatcatttcg accattca 408
```

<210> 134

<211> 2741

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1673)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2736)

<223> n equals a,t,g, or c

<400> 134

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cggcgtaag acttcgtagg gttagcgaag ttgaggtttc ttggtattgc gcgtttctct 60
tccttgctga cyctccgaat ggccatggac tcgtcgcttc aggcccgctt gtttcccggt 120
ctcgctatca agatccaacg cagtaatggc ttaattcaca gtgccaatgt aaggactgtg 180
aacttgagga aatcctgtgt ttcagtggaa tgggcagaag gaggtgccac aaagggcaaa 240
gagattgatt ttgatgatgt ggctgcaata aaccagaac tcttacagct tcttccctta 300
catccgaaga caatctgccc ttgcaggaaa atgtaacaat ccagaaacaa aaacggagat 360
ccgtcaactc caaaattcct gtcctaaaag aaagtcttcg aagccgctcc actcgcatgt 420
ccactgtctc agagcttcgc atcacggctc aggagaatga catggagggtg gagctgcctg 480
cagykgcaaa ctcctcgcaag crgttttcag ttctctcttc gaggaaatca tgtcttgatg 540
aggaagtggg aaaaatgaag gaacaagcga gaagagaaga aggcccgaga ytctgaawtg 600
agaatgaaga gagctcaggw gtatgacagt agttttccaa actgggaatt tgcccgaatg 660
attaaagaat ttcgggctac ttggaatgt catccactta ctatgactga tcctatcgaa 720
gagcacagaa tatgtgtctg tgtaggaaa cgccactga ataagcaaga attggccaag 780
aaagaaattg atgtgatttc cattcctagc aagtgtctcc tcttggtaca tgaacccaag 840
ttgaaagtgg acttaacaaa gtatctggag aaccaagcat tctgctttga ctttgcat 900
gatgaaacag cttcgaatga agttgtctac aggttcacag caaggccact ggtacagaca 960
atctttgaag gtggaaaagc aacttgtttt gcatatggcc agacaggaag tggcaagaca 1020
catactatgg gcggagacct ctctgggaaa gccagaatg catccaaagg gatctatgcc 1080
atggcctycc gggacgtctt cctcctgaag aatcaaccct gctaccggaa gttgggcctg 1140
gaagtctatg tgacattctt cgagatctac aatgggaagc tgtttgacct gctcaacaag 1200
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aaggccaagc tgcgcgtgct ggaggacggc aagcaacagg tgcaagtggg ggggctgcag 1260
gagcatctgg ttaactctgc tgatgatgtc atcaagatgm tcgacatggg cagcgctgc 1320
agaacctctg ggcagacatt tgccaactcc aattcctccc gctcccacgc gtgcttccaa 1380
attattcttc gagctaaagg gagaatgcat ggcaagtctt ctttggtaga tctggcaggg 1440
aatgagcgag gcgcrkacac ttccagtgtc gaccggcaga cccgcatgga gggcgagaa 1500
atcaacaaga gtctcttagc cctgaaggag tgcatcaggg ccctgggaca gaacaaggct 1560
cacaccccg tccgtgagag caagctgaca cagggtgtga gggactcctt cattggggag 1620
aactctagga cttgcatgat tgccacgata tcaccaggca taagctcctg tgnaatatac 1680
tttaaacacc ctgagatatg cagacagggt caaggagctg agccccaca gtgggcccag 1740
tgagagagcag ttgattcaaa tggaaacaga agagatggaa gcctgctcta acggggcgct 1800
gattccaggc aattttatcca aggaagagga ggaactgtct tcccagatgt ccagctttaa 1860
cgargccatg actcagatca gggagctgga ggagaaggct atggaagagc tcaaggagat 1920
catacagcaa ggaccagact ggcttgagct ctctgagatg accgagcagc cagactatga 1980
cctggagacc tttgtgaaca aagcggaatc tgctctggcc cagcaagcca agcatttctc 2040
agccctgcga gatgtcatca aggccttgcg cctggccatg cagctggaag agcaggctag 2100
cagacaaata agcagcaaga aacggcccca gtgacgactg caaataaaaa tctgtttggg 2160
ttgacaccca gcctcttccc tggccctccc cagagaactt tgggtacctg gtgggtctag 2220
gcagggtctg agctgggaca ggttctggta aatgccaaagt atgggggcat ctggggcccag 2280
ggcagctggg gagggggtca gagtgacatg ggacactcct tttctgttcc tcagttgtcg 2340
ccctcacgag aggaaggagc tcttagttac ccttttgtgt tgcccttctt tccatcaagg 2400
ggaatgttct cagcatagag ctttctccgc agcatcctgc ctgctggac tggctgctaa 2460
tgagagctc cctggggttg tcctggctct ggggagagag acggagcctt tagtacagct 2520
atctgctggc tctaaacctt ctacgccttt gggccgagca ctgaatgtct tgtactttaa 2580
aaaaatgttt ctgagacctc tttctacttt actgtctccc tagagatcct agaggatccc 2640
tactgttttc tgttttatgt gtttatacat tgtatgtaac aataaagaga aaaaataaaa 2700
aaaaaaaaa aaaaaaaaaa aaaaaagggg gggggncccc c 2741

<210> 135

<211> 686

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (638)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (655)

<223> n equals a,t,g, or c

<400> 135

tcttcctttt ttccgcctct cgttcgcttt tgtcttacga ggcttccgga acacggccca 60
gaattacaga gaaaacacac ctgcacgcgc actctctcgt acacgctgtg cggcttctgt 120
ttggttggcc agttcgtccc aatttccgac tcacaggctg cggagcagca actctcacga 180
tatttgctcg acccgagcgc gtatccgctg ccgggttctg gcgcgccctt tcagttctgc 240
ttgctgtcsg caccgctgcg ttaccgggaa ccgcccggcc gaacagcatg acgtccgctt 300
tgagaaacta catcaaccgt atcctcaagc tggcgccgcg ggcgtgagcc ggggtcgcgg 360
agaggccgcg gtcggggatc ggtgggaggt tgggaggcct ggcctcggcg ggatcctggg 420
ggcgggcgag gagatgaggg ccccggaacg acccagagtt cgccggcggc gcctcgagcc 480

ttcccgcctgc tgcggggccca rgggtccttt ccattttgcc tgcaaaaccc aaataaaaaac 540
ccagtgtgat tattccgaac ttttctgtct taaaaaaaat gtacgctctt gattcttact 600
tactatttcc ctatggcata agtggttaaag tttgtganta agatgaacag tcgtncctggc 660
ggcgacaaca gtttgcaatc tttgta 686

<210> 136

<211> 242

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (229)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (242)

<223> n equals a,t,g, or c

<400> 136

cagcttactc tcaatatatc tctcttactc tctctctctc tctctttttt ttttaatatg 60
gtgaaattag accaggggtc agaacataga ttttagtctc cttagttca tctactagga 120
gactaaatta gataatctct aaactccctt ttagttctaa aattctgtaa ttaaactcta 180
gcatatcatc attttagact aaaagtttct ttcttcttct tcttttttnt tttgggtttt 240
tn 242

<210> 137

<211> 545

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<400> 137

caggaagagc ccaactgggt atcagaataa gccacatgca ctttctgaaa ctgccccaaat 60
ccacacctgc ataagaattt gagcccagtt cataaagcag atcatgaagc aattatcttc 120
ctggaagggt ttttagcttg ctctccagtt gcctcagcag ctttggctct gtgccacagt 180

gagcccaagg ggaaggtgat ggaacagcat cacatctgca ggctcagtgt tttgtttggt 240
gagggtaagg ggaggggaatg tagacggatg aagaaatttc tccctactgc ttccattttg 300
atatttcttt aacttcacat ttcattcctca ttcctagcag ttgcctagtt atagaggatt 360
tcttttawct ttttttcaga ggcattgccag gtggaagtga ggtgcttgst ggsctacaac 420
tccagtgtc gcaattccaa aatgnccctt ggatggaggg ttggtgagaa tgtcaccaca 480
gtgggaaacc agcaatcggg ggaaccattc ccttaagcaa gcctttnaaa gttnttttaa 540
tgccc 545

<210> 138

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (373)

<223> n equals a,t,g, or c

<400> 138

tcctcgggga gccagttgt gccaccatt ctctgtaagg tggccccagg gtgggcttag 60
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tgaggaggga gagggagtta gccagaccag ggtggagatg agggatttct gagcagcagg 180
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atgggaactg caggctggcc ccaagcctct gccccgctcc tcccttgagc gcagggcctc 300
ctggagcctt gtgtcatcc tgggtctctg agnccccagc cctgcacaga gagcgagac 360
gtgccttgcc ttncacccg tccgctctgt cctctt 396

<210> 139

<211> 2771

<212> DNA

<213> Homo sapiens

<400> 139

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aggtaaattc ttgggacctg gagaagaagt aacgagttag ccacgctgta aaaaattgaa 180
gtcaaccaca gattcgtagt tttttcaca tcatagtaat gctgattttc acagaatcca 240
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tggtataaga ccagatgtta ttgaatccat tgattcacag gttttacagg aagcacgtcc 420
tccattagta tccgcagacg atgagatata tagcacaagt aaagcattta taggacccat 480
ttacaaaccc cctgagaaaa agaaacgtaa tgaaaggagg aatgaggcac atgttctaaa 540
tggtataaat gacagaggag gacaaaaaga gaaacagaaa tttaactctg aaaaatcaga 600
gattgacaat gaattattcc agttttacaa agaaattgaa gagcttgaaa aggaaaaaga 660
tggttttgag aacagttgta aagaatctga accttctcag gaacaatttg ttccatttta 720
tgagggtcat aataatggtc tcttaaaacc tgatgaagaa aagaaagatc ttagtaataa 780

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cttgtaatgc atacatagtt atcatcctcc ttctcaaccc atctccctaa cccacatgc 2520
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ggatttgtac tatagaatat cttctagtac taatttttct gtagagcaaa ttatatttct 2700
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aaaaaaaaa a 2771

<210> 140

<211> 422

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 140

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actaagggat actgctcaaa gttaagatga caattatcag tgatgtataa taagagatgc 60
tgaaataagg gtgataataa aggtcccggg cttgctcact catgggcaca gtaaaatttt 120
tatgcaagta tataccacct tacataaacc tcactttaga taccctcaag tgattgcaca 180
tcaagatctt gcaaattgaa aaatacatta agtatgccat ggggttgact ttttatcaga 240
attcacacat gatttctttc ataagttcag gatcttttag ggtgcccata gccttgcccta 300
tatttacgta ttttataaac ctacatttng gkatawgaag tcttttcytt tttttttgag 360
acgagtatcg ctctgtcgcc caggctggag tncagtggca ggatcttggc ccactgcaag 420
cn 422
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<210> 141

<211> 1630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1566)

<223> n equals a,t,g, or c

<400> 141

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tgggggccgg agacagactt cggccagggt acgggtagta ggggcggcgc gcttggcctc 120
gtggggtgta agaccactt gctgttgccc cggaccttg ccgccacacc agccctgtcc 180
tggggcgga a ccgaagaagg tcgggcccctg ctgcccgcgc ccgtccttcc tccttcccgg 240
gcggctcactg tgcgtggctc acttttagag ttacttcaa ccacgtggag cttccatggc 300
ggcctctcag gtcctggggg agaagattaa catcctgtcg ggagagactg tcaaagctgg 360
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gaggcagaag tgtgcctcct acgtgttggc cctgaggcct ggagcttcag tgcctcactc 480
acaccggtgg ccctgggcag tggccttgcc tacagatccc acgggtgtcct ggatcccagg 540
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acttactatg acttttccaa gggcattgac cacaaaaaga gtgatgacag gacacttgtg 660
gaccgaatct tggagccgca ggatgtcgtc cggttcggag tcttctctca cacgttgggc 720
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aaggaatgtg atttggcagt cagggtacta agcatgggtg ggaactcctg ccttataaaa 1440
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atgggggaat ttaaaaacca ttcttgatc agaaggtgaa ttaggcgcat ggtctttgtt 1560
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ttattnaata aatttccact agaggggtgtt ctcaggtcac tttgcagtgg aagtgggact 1620
tagttcctcc 1630

<210> 142

<211> 264

<212> DNA

<213> Homo sapiens

<400> 142

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gctctggaag ctgtggaaag gtgctagtgt ggcccacaga atacagccat tggataaata 120
tgaagacaat cctggaagag cttgttcaga ggggtcatga ggtgactgtg gtwracatcy 180
tcggcttcta ctctgtcaa tgccagtaaa tcatctgcta tttaaattaga agtttatect 240
acatctttga actaaaaatt attt 264

<210> 143

<211> 636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (323)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<400> 143

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attcgtctgg cgctggaag ggttgatgtc aaactggaac aggccgcaag aacactggg 120
gccgggcgct ggcgcgtttt ctttactata acgttaccgc tgaccttacc gggaattatt 180
gttggtacgg tactggcttt tgctcgttct ctcggtgagt ttggtgcaca tcacctttgt 240
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ccccggcgagg aaaagtggag cgnccgagact gtgccattat ttctattgcg ctggcgatga 360
tctccctggt gatttcagaa tggctggcca gaatcagccg tgaacgggag gggcgctaata 420
catgctggaa ctgaattttt cccagacgtt gggcaaccat tgcctgacta ttaatgaaan 480
taccgtactt caatccataa agttgcgtta agccgcacgg ttcaaaacgg ctgggcacca 540
gaatgacgtc cgcgcgcgcc ataatgcgat gcgaawatgc tcgtgatagc caatctgaac 600
gcccacctga ccgggggtatt tccgtgccgc cgcaag 636

<210> 144

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (489)

<223> n equals a,t,g, or c

<400> 144

ccgccctcgg cgtcctctgt agcgggagac ctaggccgag ggacccggac ggaggtagag 60
gccaggagcag cgcgtccggg agcggagtcg gcgcccgcgg ccgccatgcc ggacagctgg 120
gacaaggatg tgtaccctga gccccgcgc cgcacgcggg tgcagcccaa tcccatcgtc 180
tacatgatga aagcgttcga cctcatcgtg gaccgaccgg tgaccctcgt gagagaattt 240
atagagcggc agcacgcaaa gaacaggatg tactactacc accggcagta ccgccgcgtg 300
ccagacatca ctgagtgcga ggaggaggac atcatgtgca tcaaaktcga ccaagaaatt 360
atcacattat gcaggatcgg ytcaaagcyt ktcagcagag ggaaggacag actaccagca 420
gactgtatca aggaaktgga gcagttaccc aggtggccaa ggctaccagg gaccgntatc 480
aggacctgng ggcctacatg 500

<210> 145

<211> 1945

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1934)

<223> n equals a,t,g, or c

<400> 145

ggcacgaggc tgctgctttc ctctctgtta aagagaatgt tcaaggccga ggacacataa 60
aaaagagcag cattgctggc tctgttattt agctgtgtgt tcttgaaaaa gtcacttctc 120
cagacatata tcagcattta taacctaaaga ctgaatcact gcattttacc cttaatgagg 180
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caggctcctct ttgggttcgc tgtacacccg gagcccgagg ctgcggcga ccacgagcaa 480
tggactcctg tggctgactt cactcaccat gctcacactg cctccttgtc agcagtagct 540
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aaaaagaaga ttgagcatgg ggctctagtg catcacagtg gtacaataac ttgcctgaaa 660
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gcaaagaaat gggaatgcct gaartcaatt aaagctcaca aaggacaggt gaccttcctt 780
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tgttaatgtg tcatgtaatt ttactttgt acaaagcaaa taaagatctt tctcaaaata 1860
tactgtaaaa taatataaaa tattgaacac attctttatc aaaaaaaaaa aaaaaaaaaa 1920
ttactgcggt ccgncaggg aattc 1945

<210> 146

<211> 1114

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1006)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1034)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1055)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1084)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1108)

<223> n equals a,t,g, or c

<400> 146

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taccactgga cccttccccct gtcttgaacc ctgagccggc accatgcacg gacgcctgaa 180
ggtgaagacg tcagaagagc aggcggaggc caaaaggcta gagcgagagc agaagctgaa 240
gctataccag tcagccaccc aggcgtatt ccagaagcgc caggctggtg agctggatga 300
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tgctctggtg aaggcagaac tgggcttcct ggagagctgc ctgcgggtga accccaagtc 480
ttatggtacc tggcaccacc gatgctggct gctaggcsgc ctgcctgagc ccaactggac 540
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cactgacagc ctcatcacc gaaacttctc caactactct tcctggcatt accgtcctg 720
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tgtgctgctc aaagagctgg agctggtgca gaatgcttct tctactgacc caatgaccag 840
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tgctgcatg tgagccggga csaggcctgt ctgactgtct ccttctctcg gscctctta 960
rtgggctyca ggatkgagat cttgctgctc atgggtgatg aatctncccc tgattgtgga 1020
atggaggacc ccnatggca ggaaccggg ccaanctgtc tggattcca agatggtggg 1080
gcanaaattg ggctggggca aggcgtgntg gaaa 1114
```

<210> 147

<211> 546

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (486)

<223> n equals a,t,g, or c

<400> 147

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tgccgctccc gccttcgcag ccagcgcggg cttacctagt gttaagtctc tcttcttggg 120
tggcccacgc ctaagcgacc tatgcttctt gttcttctga aatcttacag tcccccttag 180
atgtaggttg gctattggta gcttccgatt cagataagtt tggaacttga cagatgtttt 240
cggggggctg ctttagagag aggccttgga ctatgcaagg ggaggaagga ggttcagaaa 300
aacggggtcg gggggctcggc aggacgactc ttraartgtg gaaggtggaa gctgggaggg 360
gagataaagg gcaccraaga ccagcttggt tgctcctatc aaggtgatcc tttccagagc 420
aagagccata tgnatgtcta gtcgcacgag tttgtgccaa gtcctttgca aaaaccttca 480
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gatgtnggat ctcatgtaat cttgaagaca tcttagtcgt cctaagggtt aattatttaa 540
ttgatg 546

<210> 148

<211> 1763

<212> DNA

<213> Homo sapiens

<400> 148

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cgacagctgc tctgggtact gtttccgggt cagggtgacc tctggggtga ggaaactgcg 180
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caatttaaat cccagttcac ctggtatcca gctccagcaa cttagagcgt ttcacgtcac 420
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agtgggtttt gattccacc atggccatca cccagtttcg gttattttaa tttgtacct 540
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aaccattgaa ttttggcatc ccagatggga gcacaggttt ctctagtaga ttagcagcta 900
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gacagcagaa actagcagac agagaaaaga gagcagccga acaacaaagg aagaaaatgg 1080
aaaaggaagc acaacggcta atgaagaagg aacaaaacaa aattgggtgtg aaactttcat 1140
aacacatgtt caaattttat catgccagta ggagaaatct cagctccaca acccaagcaa 1200
catttgtatg gatttaagag tattttaaga agacatactg cttgatttta atacattgat 1260
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tgatttcctt caatgtgcat aatgataaaa taaataattt taatattcct ttgtttccat 1560
ggttacctga cctaaattag ataaattgta gggctttagc tttcttattt ttgtcaaaag 1620
ttggtgttga catacattcc ctctaatttg aactggtatt gtttacgttt gataacaat 1680
taaggaattt gatgattttc atttcatgaa aatgacatta aatgcaataa ttttacttat 1740
cataaaaaaa aaaaaaaaaa aaa 1763

<210> 149

<211> 371

<212> DNA

<213> Homo sapiens

<400> 149

aattcggcac gagcagactt gagagcaata aatgcaaacc taaatgagaa aatggaatcc 60
ctgacagctg tgcctgtatc aagcatcagt ctctcaaaca gttgccccag cctgacagtg 120
ctagtctctg tttaatggta aaaggagact ttgccataat tttcagatga agatgtttcc 180
caaacactgt ttacagaatg agatgtgact ctacagatac ctcatagaag acaatccaag 240
atcatacttc attaacttga cagagtacgt gtcttaaagg aagcatcagg aattccaata 300

tttgcmttta aaatactttt twagggcctt ttatattagg ccatgcttgg aaaactggat 360
tttttttatt a 371

<210> 150
<211> 432
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<400> 150
atnttcagga atcctcacgc aaccgggaag aagcgcaagg gctggaccgc taaacctgag 60
ggcgcccggc ctgcgcacgg gaacctggac tggaacccta cttgcaggtc cccaacttgc 120
gtctctyctc tctgtctcta cccagccaa ggacaaagac ttctcctccg gaaggcctcc 180
cccagctgag ggaacgttcc aggtcytccc tcggccctgg ctgcgcgccc ggtgccggct 240
ctgacgtggt ttctctctcc ctcaggactg gtctgtctcg ctccctcgtg cctccctcgc 300
ggcgcccttc ggytctctct tcctctacgg ctacaacctg tcggtggtga atgccccam 360
cccggaagga caattttgnt gggccaataa atgggggttt gaaatttntt gttggatttg 420
ntgaatgggc tt 432

<210> 151
<211> 401
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (234)
<223> n equals a,t,g, or c

<400> 151
gaaagcaaag ttcaacatca ctggtgcctg cttgaatgac tcagatgacg actcaccaga 60
cttggaacctt gatggaaatg agagcscatt ggccctattg atgtctaacg gcagwacgaa 120

aaggggtgaag agtttatcca aatctcggcg aaccaagata gcaaagaagg tagacaaggc 180
taggctgatg gcagaacagg tgatggaaga cgartttgac ttggrttcag atgntgagct 240
gcagattgac gagagattgg ggaaagagaa ggcgaccctg ataataagac caaaatttcc 300
ccggaaattg ccccgtagcg accttgctct gacccaacc gagttcgtga accaggagaa 360
gttgagtttg acattgagga ggatatacaa cagatgaggg t 401

<210> 152

<211> 851

<212> DNA

<213> Homo sapiens

<400> 152

tctccggata actgtgctcc tgacatcctt ccttatgggtt ttgggaactg gtctaagatg 60
catacctata tcagacttaa tccttaaaag aagattaatt catggaggac agatgttaaa 120
tggattggca ggtccaactg taatgaatgc agcaccattt ctctctacga cgtgggtttc 180
tgcagatgaa agggccacag ccacagctat tgcataatg ctcagttatc ttgggggagc 240
atgtgcattt ttagttggac cacttgttgt tccagctccc aatgggacat cacctcttct 300
tgctgcagag agcagcaggg cgcatattaa agatcgcata gaggctgtgt tatatgcaga 360
atgtggagtt gtctgcttaa tattttctgc aacactagct tatttcccac cccgacctcc 420
tcttctctcc agtggtgctg cagctagcca gcgtgagtta tcggagaagc gtttgtagat 480
tattaagcaa ttttcgattt ttgatgattg ctttagcata tgccatacca cttggtgtat 540
ttgctggctg gtctggagtt ctggacttaa ttttaacacc agcgcatgtc agccaagtag 600
atgctggctg gattggattt tgggccatag ttggaggctg tgttggtgga atagctatgg 660
caaggtttgc agattttatc aggggtatgc tgaaactaat tcttctctc ctgttttcgg 720
gagctacact gtcattccacg tgggtcaccc tgamctgttt gaacagcatc acacacctac 780
ctttaaccac agtgacattg tatgcctcct gtattctcct gggagtgttc ttgaatagca 840
gcgtgcctat a 851

<210> 153

<211> 1678

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1663)

<223> n equals a,t,g, or c

<400> 153

ctcgtgccgc acagctctgg gtgtgggagg gggttgtcca gcctccagca gcatggggag 60
ggccttggtc agcatctagg tgccaacagg gcaagggcgg ggtcctggag aatgaaggct 120
ttatagggct cctcagggag gccccccagc cccaaactca ccacctggcc gtggacacct 180
gtgtcagcat gtgggacctg gttctctcca tcgccttgct tgtggggtgc actggtgccg 240
tgcccccatc ccagtctcgg attgtgggag gctgggagtg tgagaagcat tcccaaccct 300
ggcaggtggc tgtgtacagt catggatggg cactctgtgg ggggtgcctg gtgcaccccc 360
agtgggtgct cacagctgcc cattgcctaa agaagaatag ccagggtctg ctgggtcggc 420
acaacctgtt tgagcctgaa gacacaggcc agaggggtccc tgtcagccac agcttcccac 480
acccgctcta caatatgagc cttctgaagc atcaaagcct tagaccagat gaagactcca 540
gccatgacct catgctgcty cgctgtcag agcctgccaa gatcacagat gttgtgaagg 600
tcctgggacct gccaccagag agccagcact ggggaccacc tgctacgcct caggctgggg 660
cagcatcgaa ccagaggagt tcttgccgcc caggagtctt cagtgtgtga gcctccatct 720

cctgtccaat gacatgtgtg ctagagctta ctctgagaag gtgacagagt tcatgttgtg 780
tgctgggctc tggacagggt gtaaagacac ttgtgggggt gattctgggg gtccacttgt 840
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cgaagctcga gcctcctgag tcctactgac ctgtgctttc tgggtgtggag tccagggctg 1140
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gaggtttgtt cagggtcccc aaaccaccgt cagatttgat gatttcctag caggacttac 1620
agaaataaag agctatcatg ctgtgggtta aaaaaaaaaa aanaaaaaaga agtcgacc 1678

<210> 154

<211> 1158

<212> DNA

<213> Homo sapiens.

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1148)

<223> n equals a,t,g, or c

<400> 154

ctttatgggt aaagccttac ggagatgtct gtgagtagca tatcttctgc aggctcttct 60
gtggcctctg ctgtcccctc agcacgaccc cgccaccaga agtccatgtc cacttctggg 120
catcctatta aagtcacact gccaaaccatt aaagacggct ctgaagctta ccggcctggg 180
acaacccaga gagtgcctgc tgcttcccca tctgtcaca gtattagtac tgcgactcca 240
gaccggaccc gttttcccg agggagctca agccgaagca ctttccatgg tgaacagctc 300
cggggagcgac gcagcgttgc ttataatggg ccacctgctt caccatccca tgaaacgggt 360
gcatttgcaa tgccagaagg ggaacgtcaa ctggtataat aagcaaaatc acatccaaat 420
ttgttcgcag ggatccaagt gaaggcganc agntggcaga accgacacct caagaagtac 480

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atcaggggaa ccaaaaagaaa gagacaagga agaggggtaaa gattctaagc cgcgttcttt 540
gcggttcaca tggagtatga agaccactag ttcaatggac cctaatagaca tgatgagaga 600
aatccgaaaa gtgttagatg caaataactg tgattatgag caaaaagaga gatttttgct 660
tttctgtgtc catggagacg ctagacagga tagcctcgtg cagtgggaga tggaaagtctg 720
caagttgccca cgactgtcac ttaatggggt tcgcttcaag cgaatatctg ggacatctat 780
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tgcctaattg ggtctgcctg tgaatctccc catgtagaat ttgcccttaa tgcaataagg 960
ttatacatag ttatgaactg taaaattaaa gtcagtatga actataataa atatctgtag 1020
cttaaaaagt aggttcacat gtacaggtaa gtatatgtg tatttctgtt cattttctgt 1080
tcatagagtt gtataataaa acatgattgc ttaaaaaaaa aaaaaaaaaa aaaaattnct 1140
gcggccgnca agggaatt                                     1158

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<210> 155

<211> 1969

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<400> 155

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gccgcacgag cagccagaga cagcgcgacc cggagccgga gccagagcca gagccagagg 60
gaggacgcag ccgcgcgggg gcgcagaacg accagctgag caccggggccc cgcgccgcgc 120
cggaggaggc cgagacgctg gcagagaccg agccaggtaa gcggcgaggc cggggaaggg 180
gggcagccca aggcggacc ccagagctcg ggggtgcagg acgcggggct ccgcggcgac 240
aggcagaggg accttcccgc ctccgcagcc acgcgcgcgc ccccggaatg aaccctgagc 300
cccagcgtca gggcggcgca ggattctgac accgcaggat tcgcccgggt ccgtgccttc 360
cgttccctgg ggctcagaag ccggcgcgac tgcagcgcca ccgccttcca ccgtcccagg 420
agcggatccc gcccgcgcgc acccgcgac ggcgccagcc ccccggtagt tatgagaant 480
aataataact tattaacagt gacaaagcag gggttgacca gcaaagcctc cgtgtgcttc 540
ccaatcccgt gggcagtaaa gcggtatatt cggggttccc tccggtgtcc aggagagaga 600
gtccacttat tttctttcct gtcacttctg atgaggcgac cgaacgcctc gtttagcgaa 660
gagggaaatta aagcccagaa tgagcctgcc tctgcgtctc cagtggcaca agccctctct 720
tgcccacctg gatcctaaca ccgatgtct tttggtctgg ccttcccggg tatcttgctc 780
cacggcattt tccctgcctc cctctcccgc ctctcctcag cacacagatc cagaatcccc 840
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ttttgtcttc ccatccctcc ttccccactc tcctttccag aaaggcactt ggggtcttat 1140
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ccgcagaagc gctcccgagc tgccttctcc cactctcagg tgatcgagtt ggagaggaa 1260
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cagctctcct cggagctggg agacttgagg aagcactcct ctttgccggc cctgaaaag 1440
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tgtactgcgt gggcagtgga gccagcttt tkggtaatgc cagctcaggt gacaaccatt 1560
atgatcaaaa actgccttcc ccagggtgtc tctatgaaaa gcacaagggg ccaaggctcag 1620

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ggagcaagag tgtgcacacc aamgctattg gagatttgcg tggaaakctc agattcttca 1680
ctggtgagac aatgaaacaa cagagacagt gaaagtttta atacctaagt cattcctcca 1740
gtgcatactg taggtcattt tttttggttc tggctacctg tttgaagggg agagagggaa 1800
aatcaagtgg tattttccag cactttgtat gattttggat gagttgtaca cccaaggatt 1860
ctgttatgca actccatcct cctgtgtcac tgaatatcaa ctctgaaaga gcaaacctaa 1920
caggagaaaag gacaaccagg atgaggatgt caccaactga attaaactc 1969

<210> 156

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<400> 156

aattcggcac gagaagaaag aaagaatgaa agaaagaaaa gaaaagaaag aaaggaaaga 60
aaaaggaaaag aaagaaagga aagaaaggaa agaaagaaag agagagaaag aaagaaggaa 120
aaggaggaag ggaattccag gtatatacca ctgcatgagt aaaggcaggg ttgtggatag 180
acatagttga tttgtagggc ccttgtttgc caagaatagt cctgctttac ccctgttgtc 240
ctgatgtaat tattaataat actgcctcat tcagtcctaa ataagtcttg grtttggact 300
agaaattata tggctaccyc tttatgtggg actaaaagta attccttgrg acmgggacnt 360
ggagtnaggt gcccaaggaa agctagaagg tagtttntc 400

<210> 157

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (720)

<223> n equals a,t,g, or c

<400> 157

catggttttg taacctcatg cactgtggga atgtcagagg accccgagat aatgcttcac 60
tgccaagtct gaaaattgtg tccacaagat ttgattggta gtattttcta tcattgtaca 120
acttaaaata tcttctaatt tccatttttt ttttttgaca tgagttgtat agaaatgtgt 180
gcttcagttt ctgttatagc aacaactcct gtcaccata gccttacaaa aattcctaata 240

tttaatatattt aaatttttaga attckacrag cagaattaca aaaagagtaa ctaacaagaa 300
agtgagattg tgatgggata acggaatgtc aagtctaatt gtcaggaaaa gacaaaataa 360
catgggaatg acaatcaaaa tggactaagg acttagaaga tccgaaacta tgaagctact 420
aaaagaaaca ttggggaatg ctccaggaca ttggtctggg caaagatttc ttgagcaata 480
ccttaaaagg acaggcaacc caagcaaaaa tggrcagwtg ggwtcmcwtc magctaaaaa 540
acttctacac agcgaaggaa acaaagtga cagaataaca tgggaatggt ttctgtaatt 600
tagtagtaac tggcaatagt ttacaaacac attttgtgta tactgctgtc attgcactga 660
ttaccttctg ttgtagtgac tttgttctat tagtccactc aattaaaata tttggttttt 720
tt 722

<210> 158

<211> 1200

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 158

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gcttctcatc acttctacaa cccacaatg gaaaaagaac cgagtgcagc tgtatgagta 120
tgatactagg gaagatcagt ggattaatat aggtaccatg ttaggccttt tgcaatttga 180
ctctggtctt atttgccttt gtgctcgtgt ttatccttcc tgccttgaac ctggtcagag 240
ttttattact gaggaagatg atgcacggag tagntctagt actgaatggg acttagatgg 300
attcagtgcg ctggactctg agtcagggaag ttcaagttct ttttcagatg atgaagtctg 360
ggtgcaagta gcacctcagc gaaatgcaca ggatcagcag ggttctttgt aaatagtatt 420
ttgagacact aagatgtttc tactgctacg gratgtattt taaacacata tcgtttcttt 480
ttcttggaaa aaaagttgat taggaccaca gatttgggtt agaaagggtg atattttgaa 540
atactacaag gtttagacag tccatgaatc gacctgttta ataatttacc atcctgaaag 600
tccagaatta aaatatggaa gcaagaacta tataattgat taggatgctt ggtaggtttt 660
tttcattggt caaatattca ttgcacagtg gattgttttg attagttagt atgctttttt 720
tttaattaat tcagttctct gttaattttt aagttttggt tagtgccaca aggaatttaa 780
ctttttgatt tgtataatag aaaactgaac taggaattgt tagcgggggt ttgaaggatg 840
tgtactttcc ttcaaaaata agtggttagt tttcaaaatt ttacactagt cagttcttta 900
tattctaagt taaatgtagt ttgtaaaatt attttgggtt tcttctacaa aggaaaaaat 960
tggatttata tatataaggt tactgcataa tgatttcatt ttgataatgt gcagaatggc 1020
ctcataagct cacagaaagt aaaaaaaaaa aaaaaaaaaa aagaaaaaat caggattcca 1080
ctgtttttaa agaaatctca gtttttattt tggaatataa aatgtgtatt tggatatagt 1140
gaccaatttt ctatcccaaa aaacacccat tcttagtaat gtcatgaatt aaacaccctt 1200

<210> 159

<211> 345

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (321)

<223> n equals a,t,g, or c

<400> 159

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ttcggcacga gagaaaagta aaaaaaagaa agaaagaaag aaacaaacaa acaaaacaac 60
tggcatacat atatctccta aatacaggaa gaagtattca taatctcact ctttagcatg 120
gtacaaagct aaccacaact aawttattgt atataargcc acgtgaagtg stgtgtgaca 180
gccttatttt gtgaataggg ctgagaaaac cagttcaaat tctcctgaga ctatttcaga 240
ggrgttaaaa tttgaactcg tttaaaaatc atgrttttatt tacttaatat taagtttagg 300
ttaacgggca gaaaangagg ngcctggggg catcacccaa atttt 345
```

<210> 160

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<400> 160

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aattcggcac gagagacacc agagtgaagg agagaggcca tgctgtgtcc gagaagctcc 60
tactggggtg gaagggacag ctccacaaag gctgctcttg caggggctct cctgcagcaa 120
ggtgcctgct gactgtcccc agactgtctc ccgacacaga gggatgcaaa ggcagcctct 180
tcctgctcag tggaataggg aaattatata acctttcact tcccactctc acttctgccc 240
ctgctaccct tagtcttttg cttttgctga cattttcccc tcttatcttt tctcctgacc 300
aagttctagg tntttcatag ggcagtctta ggtgagggtt ggaaccccaa tgaagttggg 360
caacagaaac ccagctnaca atggctgttc actgtgggca agctgtttcc ccttcattct 420
ntaaaagtgg aggtgggggt agtgatatgag tctggggttc cattcaactg tgtgtg 476
```

<210> 161

<211> 520

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<400> 161

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aattcggcac gagctgcgcg cggctacagc acggttcggt tttcctttag tcaggaagga 60
cgttgggtgtt gaggttagca tacgtatcaa ggacagtaac taccatggct cccgaagttt 120
tgccaaaacc tcggatgcgt ggccttctgg ccaggcgtct gcgaaatcat atggctgtag 180
cattcgtgct atccctgggg gttgcagctt tgtataagtt tcgtgtggct gatcaaagaa 240
agaaggcata cgcagatttc tacagaaact acgatgtcat gaaagatttt gaggagatga 300
ggaaggctgg tatctttcag agtgtaaagt aatcttggaa tataaagaat ttcttcaggt 360
tgaattacct agaagtttgt cactgacttg tgttcctgaa ctatgacaca tgaatatgtg 420
ggctaagaaa tagttcctct tgataaataa acaattaaca aataaaaaaa aaaaaaaagg 480
ggggggcccc tctaaaaggt ccaagcttac gnacgggtgn 520
```

<210> 162

<211> 339

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<400> 162

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aattcggcac gagegcgcct ccacgccag ctaatttttg tatttttggt agagacgggg 60
tttcttcacg ttggttaggc tgatcttgaa ctctgacct caagtggnt gcctgcctca 120
tcctcccaaa gtgctgggat tacaggcgtg acacctgcac ccacccatgc tctagtacat 180
cctaaagaat gccttttagtt cctctttcct gacattactc tgcttaaatt ccccagattc 240
aagctttttg agaatcctat ctcagcattt tgggcatcag gccatgttat atataggtrc 300
acaacttcta ggccttggtt agttggacag gtnaaaaag 339
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<210> 163

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (343)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<400> 163

```
aattcggcag agcagaacat tggatatgagg cacatgactg tagatottct cattaataat 60
aggcaacctg gtcagggtgca cgartctagg gttcagaatc caacaggctc aaattcaagt 120
ccagctcagc cacgtggctg atgctgtctg aacctcagcg tcctcagctg ttaaacagag 180
gtaaccatcc ccactcagc agctttggga ggaaattaaa tgagatatat tggggatcca 240
gataaccaat aaaatatcaa atcactttac cagttcaagc tcttaccact tcagtgattg 300
catgggcttt atcactgacg gatggaactc aggggttcca ggngttcng acccagc 357
```

<210> 164

<211> 1079

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (831)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (993)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1058)

<223> n equals a,t,g, or c

<400> 164

```
ggcacgagct tggcctccag agtgctggga ttacagggtg gagctaccgc gcccggccta 60
ttatcttgta ctttctaact gagccctcta ttttctttat ttttaataata tttctcccca 120
cttgagaatc acttgtagt tcttgtagg aattcagttg ggcaatgata acttttatgg 180
gcaaaaacat tctattatag tgaacaaatg aarataacag cgtattttca atattttctt 240
attccttaaa ttccactctt ttaacactat gcttaaccac ttaatgtgat gaaatattcc 300
tanaagttaa atgactatta aagcatatat tgttgcatgt atatattaag tagccgatac 360
tctaaatara rataccactg ttacagataa atggggcctt taaaaaatatg aaaaacaaac 420
ttgtgaaaat gtataaaaga tgcactctgt gtttcaaatg gcactrtctt yttttcagta 480
ctacaaaaac agaataattt tgaagtttta gaataaatgt aatatattta ctataattct 540
aaatgtttta atgcttttct aaaaatgcaa aactatgatg tytagttgct ttattttacc 600
tctatgtgat tatttttctt aattgttatt ttttataatc attatttttc tgaaccattc 660
```

ttctggcctc agaagtagga ctgaattcta ctattgctag gtgtgagaaa gtggtggtga 720
gaaccttaga gcagtggaga tttgctacct ggtctgtgtt ttgagaagtg ccccttagaa 780
agttaaaaga atgtagaaaa gatactcagt cttaatccta tgcaaaaaaa naaaatcaag 840
taattgtttt cctatgrgga aaataacat gagctgtatc atgctactta gcttttatgt 900
aaatatttct tatgkctcct ctattaagrg tatttactaa aactctgtaa tctccaaaat 960
attgctatca aattacacac catgttttct atnattctca tagatctgcc ttataaacat 1020
ttaaataaaa agtactattht aatgatttaa aaaaaanaa aaaaaagaaa aaaaaaaa 1079

<210> 165

<211> 1325

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1313)

<223> n equals a,t,g, or c

<400> 165

ttaaaacaag atacatacat agtataacac acctcacagt gttaagattt atattgtgaa 60
atgagacacc ctaccttcaa ttgttcatca gtgggtaaaa caaattctga tgtacattca 120
ggacaaatga ttagccctaa atgaaactgt aataatttca gtggaaactc aatctgtttt 180
taccttttaa cagtgaattt tacatgaatg aatgggttct tcactttttt ttagtatga 240
gaaaattata cagtgcctaa ttttcagaga ttctttccat atgttactaa aaaatgtttt 300
gttcagccta acatactgag ttttttttaa ctttctaaat tattgaattt ccatcatgca 360
ttcatccaaa attaaggcag actgtttgga ttcttccagt ggccagatga gctaaattaa 420
atcacaaaag cagatgcttt tgtatgatct ccaaattgcc aactttaagg aaatattctc 480
ttgaaattgt ctttaaagat cttttgcagc tttgcagata cccagactga gctggaactg 540
gaatttgtct tcctattgac tctacttctt taaaagcggc tgcccattac attcctcagc 600
tgtccttgca gttaggtgta catgtgactg agtggtggcc agtgagatga agtctcctca 660
aagggaaggca gcatgtgtcc tttttcatcc ctccatcttg ctgctgggat tgtggatata 720
acaggagccc tggcagctgt ctccagagga tcaaagccac acccaaagag taaggcagat 780
tagagaccag aaagaccttg actacttccc tacttccact gctttttcct gcattkaagc 840
cattgtaaat ctgggtgtgt tacatgaagt gaaaattaat tctttctgcc cttcagttct 900
ttatcctgat accatttaac actgtctgaa ttaactagac tgcaataatt ctttcttttg 960
aaagctttta aaggataatg tgcaattcac attaaaattg attttccatt gtcaattagt 1020
tatactcatt ttctgcctt gatctttcat tagatatatt gtatctgctt ggaatatatt 1080
atcttctttt taactgtgta attggttaatt actaaaactc tgtaatctcc aaaatattgc 1140
tatcaaatta cacaccatgt tttctatcat tctcatagat ctgccttata aacattttaa 1200
taaaaagtac tatttaatga ttaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaaaag gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa angggggggg ggnccaaaaa 1320
aaaaa 1325

<210> 166

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<400> 166

```
aattcggcac gagtttgcac ccaaattggt tgacctttgt gcagtggctc ccattatcaa 60
ctggggaacc agtacaatct ttacctagtt actactgagg ttgttctctc tccatcacia 120
aatttcacgc tatttatctg tgagaaaatg cctgaggact ttcacacagt aattcatctt 180
atctggaacc cttaggatca gatgtagacc gagcaaagt caagttcaca gagaacacct 240
gtgtcttcag aacattaaaag ggcaccatta gagcttgttt cccttcactt tacatgcaca 300
tttttggsat aagttngggg ctkratgatg ttgtcatags naatactgct agratgrttg 360
ctgtactcat tcactnccaa aaaagggggg gntg 394
```

<210> 167

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<400> 167

```
ataattgctg ctctttctcc tattcagatt ttaccagtg atggaaaaga tcaattttct 60
tgtggaaatt cagtggctga ccaagccttc cttgattctc tctcagccag cacagctcag 120
gncagttcgt cggctgccag caacaatcac caggtagctc tcaacttcctc cttctggatg 180
tggctggctt tacggaaaac agagcgtatt tgtgnaaggc ttgtgatgca ttatagctat 240
tgccattccc caaaagcaaa aacaaagtcg ctttaggttg ttctgtggca tttctgttgg 300
gtactaacia agaaatcacc tgttwagcct gataatgact gtttgcaaat ttattataag 360
agaaaaggca ggggtattgag ggttgctttt aggaagtctn nccatgatat ggaacacaga 420
ccccagaaac ttgcaaatac cctcttaggt taaggcatgg aaagaggagg angagagagg 480
tcttgtttgt tgaggaggtc catgtcaggc cttggcc 517
```

<210> 168

<211> 341

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<400> 168

```
cttccctcag cccttgcca acagcattct actttctgtc tctacggatt tracacttta 60
gtagcctcat gtaggaagaa tcataatact tgtytttttg tgactggctt atttcactta 120
gcataatatt ttcaatgttc atccattttg aagctccatg tgagtgggca ggaacttggt 180
aactggaggc cttcactgag aagtgattaa ggtgatgaat acctgccagt gcagtggctt 240
cacacctgta ctccagcact ttggggaggc caaggcagga agatcatttg agccccagga 300
tttsgggacc accttkggca atatagttag acccngtggt t 341
```

<210> 169

<211> 350

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (343)

<223> n equals a,t,g, or c

<400> 169

```
ttcggcacga ggtcttgact cctaccccc tacaacacat ataaaatcag ttccagatag 60
atcacacatc taaatgtgaa atgcaaaata ataaagcttt aagaaaaaaa gtaatggaac 120
catcttcatt atcttagagt aagtagagat ttattaagta ggatattaaa ggaacactat 180
aaatttaggg aaaaaatcaa tatattgatt atattaaaat taaggaaactt ttcctcatta 240
agaggccaca aagtatttgt agtatacaca tccaacaaaa gttccatatt ccngaattwtw 300
tgganggaat nccnatggta cgttaaaaaa aggccagncc cangggggggg 350
```

<210> 170

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<400> 170

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aattcggcac gagacatggt gaacctgggtc tctacataaa atacaaaaaac ttagatgggc 60
atggtggtgt gtgcctatag tcccactact tgtggggcta aggcaggagg ntcacttgag 120
ccccggagggt cgaggctaca gtnagccaag agtgcactac tgtactccag ccagggaag 180
agagcgagac cctgtctcaa taaataaata aataaataaa taaataaata aataaataaa 240
```

taaaaaaaaa caaagttgat taagaaagga agtataggcc aggcacagtg gtcacacct 300
gtaatccttg cattttggaa ggctgaggca ggaggatcac tttaggcctg gtgtgttcaa 360
gaccagcctg gtcaacatag tgagacaytg tytytaccaa aaaaaggaag gaagggacac 420
atatcaaact gaaacaaaat t 441

<210> 171

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<400> 171

ttttcatgaa cctcttcctt gggaaacctt atgactcaac agtcaaaggt gtccgaatag 60
taaagatggt tttcagtgat caggtctgtg cccatgcctg gccttgata gactctgaaa 120
tgagattctt tgtttgattg atgggggtgat ggtttctgtt gtgtacattt gaaggaaacc 180
agtttcccca cccaaaattt ctaaggagtt taatctttgg ggtrtagggg agttaaacta 240
cactgagtca aggaagtaat tgattgcata tttcctctaa aagtcagcta tggrrtgata 300
ttgactaaaa caaactagca gttctcttcc accaccaagt cmgagcgtct gttcaccatt 360
ctgcattggtt aaaagracc ctttagggat gggtaatgnt ncc 403

<210> 172

<211> 984

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<400> 172

caagatattt acttccgctc caaacaaga tgggccagct aacgagcncg ggggaaacat 60
ccgcccggaa ggccacttga aggcacttcc gccctctctt aacatggagc cggcggaagg 120
ggtggtgtag ggccgggcca taatggcggc gtcgaggctg gagctaaacc tgggtcggct 180
gctatmccgc tgcgaggcga tggcagcgga gaaacgggac ccggacgagt ggcgcctgga 240
gaagtacgtg ggagccctag aggacatggt gcaggccctg aagggtccacg cgagcaaacc 300
ggcctctgag gtgatcaatg aatattcctg gaaggtggat tttctgaagg ggatgctgca 360
agccgagaag ctgacctcct cctcagagaa agcactggcc aaccagttcc tggcccctgg 420
ccgtgtgcca accacagcca gagagcgagt gcccgccaca aagacggtgc atctgcagtc 480
acgggcgcgg tacaccagcg agatgcggag tgagctacta ggcacggact ctgcagagcc 540
tgaratggac gtaaggaaga gaactggagt ggcagggtcc cagccagtga gtgagaagca 600
gtcggcagct gagctagacc tcgtcctgca gcgacatcag aacctccagg aaaagctggc 660

ggaagagatg ctaggactgg cccggagcct caagaccaat accctggccg cccagagtgt 720
catcaagaag gacaaccaga ccctgtcaca ctactgaaa atggcggacc agaacctgga 780
gaaactgaag acggagtcag agcgtctgga gcagcacacg cagaagtcag tcaactggct 840
gctctgggcc atgtcatta tcgtctgctt catcttcatt agcatgatcc tcttcattcg 900
aatcatgcct aaactcaaat aaagaccccc gcccaaaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aaaa 984

<210> 173

<211> 1194

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1192)

<223> n equals a,t,g, or c

<400> 173

```
cgnggcggna anntantggc cccccctaa agggaacaaa agctggagct ccaccgcggt 60
ggcgcccgct ctagaactag tggatcccc gggctgcagg caaaagggan aattcaaaat 120
ttagaaaaaa cattagaaat gttaatatgg gatatttttg acttaagaca ttcagaaaag 180
ttaatgtttt aaacacgatat gtgattatag aattctattc atatatgtgt tcacatttat 240
acactttgct atactttgta tttataaata taattctggt agataaataa gtgattcata 300
ttttgtcaaa actattttta aatttcaata tttaaaatat tttgaaatca ctggttttcg 360
ttaagtggca tcatagrtga gatttgattc catgtagcat ataatttttag attgttcctc 420
tctcaccctt tttaaactcc ttcaagcatt gctattactg gggttgcctt tgggaaaact 480
tacttctaga tactaccata tatctgaaat agtagagggt gatgttaata aaattcataa 540
aataatcatg tattactttt tttgatttac cactggaagg aaatacagtc atgtgcaata 600
taatgacgtt ttggtcattg agaccacat gtgtgacagt ggtcccataa ggatgttgct 660
gaaaaattcc tgttgctgcc tagtgacact gtagccatcg taacgccata gcacgacacg 720
ttactcacct gttcatggtg atgctggtgt aaacaaacct gtgctgccag tcatacaaaa 780
gtatagcaca atgacaatta tgtacagttt atcataattc ttgataataa atgactatgt 840
tacaggttta tgtattgatt ccactttttg tcattatttt ggaatgtact cctactaatt 900
ataaaaaaga aaaggttaac tgtaaaaaag cctcaggcag gtccttttagg aggcattcca 960
gaagaagaca ttgttaccat aggagatgac agctctatgt gtgttattgc cctgaagac 1020
cttctagtg gacaggatat ggaggggaaa gacagtgaca ttggtgatcc tgaccctgtg 1080
taggcctagg ctaatgtgtg tgtgtcctcg tttttaacaa gaaagttaa aaagtaaaaa 1140
aaaaaaaaaa ggnctcgaga aagggcaaaa gggcncttgg gcaaatggca gnac 1194
```

<210> 174

<211> 701

<212> DNA

<213> Homo sapiens

<400> 174

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gcttccactg atcttgccca tctgatgtta ccatgtttgt tgtaaaggaa gagactggca 60
ttctggacaa ctggcatcag agactggctg acatggagaa cccactctgt gtgtgctgag 120
grcagggcac tcaccagtgc agaggcagaa gtgggtgcct gtcctcgagg gttaaccgcg 180
tttgctccc gccacagcc cctccacctt ctaaaagctc aagagatgat cagactgaaa 240
caccgcacca tcttgctgtt ctgcctaggc tggaagacct ggcccaggct atggaggccc 300
ctgctccact tgccagattc gcaggagtct tctgaccaga gctgtcgcac cttgctgctg 360
ccactggcac tgctgccatt ctcatcctct tgggggcctt cattggtgcc acattctttg 420
tagccacctg ggctgtcagc catgagggaa ggaccctcgt ttagtctcg gattgtaagg 480
tttccatctc tgtaccttct cacaaagaag agtcagggcc caagcttaat gacctgtttt 540
ttaattcagg aaggtaaata tcgttctctc gtcacaccg gaattacagg tccatttgtc 600
ctcagtggga gttgatcttt gattcctaca aagaacaata aagtccggtg aattcccata 660
aaaaaaaaaa aaaaaaaact cggggggggg ccccggtaac c 701
```

<210> 175

<211> 1181

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<400> 175
tgggganatt tccccgaacc ggcnttcccg ggtcgaccca cgcgtccgcg gacgcgtggg 60
ccaaagtgtt gtgtgtgtn gtgtgagtgg gtgcgtggta tacatgtgta catatatgta 120
taatataat ctacaatata tattatata atctatatca ttttctgtg gaggggtgcc 180
atggtaacca gccacagtac atatgtaatt ctttccatca cccaacctc tcctttctgt 240
gcattcatgc aagagtttct tgtaagccat cagaagttac ttttaggatg ggggagaggg 300
gcgagaagg gaaaaatgg aaatagtctg attttaatga aatcaaatgt atgtatcatc 360
agttggtac gttttggttc tatgctaaac tgtgaaaaat cagatgaatt gataaaagag 420
ttccctgcaa ccaattgaaa agtgttctgt gcgtctgttt tgtgtctggt gcagaatatg 480
acaatctacc aactgtccct ttgtttgaag ttggtttagc tttgaaaagt tactgtaaat 540
gccttgcttg tatgatcgtc cctggtcacc cgactttgga atttgcacca tcatgtttca 600
gtgaagatgc tgtaaatagg ttcagatttt actgtctatg gatttggggg gttacagtag 660
ccttattcac ctttttaata aaaatacaca tgaaaacaag aaagaaatgg cttttcttac 720
ccagattgtg tacatagagc aatgttggtt ttttataaag tctaagcaag atgttttgta 780
taaaatctga attttgcaat gtatttagct acagcttggt taacggcagt gtcattcccc 840
tttgactgt aatgaggaaa aaatggtata aaaggttgcc aaattgctgc atatttgctg 900
cgtaattatg taccatgaat atttatttaa aatttcgttg tccaatttgt aagtaacaca 960
gtattatgcc tgagttataa atattttttt ctttctttgt tttattttta tagcctgtca 1020
taggttttaa atctgcttta gtttcacatt gcagttagcc ccagaaaatg aaatccgtga 1080
agtcacattc cacatctgtt tcaaactgaa tttgttctta aaaaaataaa atattttttt 1140
cctatggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 1181

<210> 176
<211> 489
<212> DNA
<213> Homo sapiens

<400> 176
aatcgctgaa ccaggagcgg agttgcagga ggagaytcac cactcacttc agcctggtga 60
cagrgggagc tctktcttaa aaaaaaaaaa aaatcatct gtaaaataaa ttccgggata 120
gtcgttttgt tcaaggaaat gttttgtaaa ttgagctcac actatataat ctttattgtc 180
ctatcctgat gtataatata gcaggataaa ttacaccaag cgctatagtt ataaatatgg 240
catgaagtga actatggcct tttatttcct tccagtgtga acacagcagg tgtgagatgt 300
catcttgga gacaggcctt gcagaaatag gcctacatcc aaaatattat cttgtgactc 360
catgaacat tcattaaccc tttgtatctt tgagtgaata ttttactcaa aagttgcatc 420

tggaagttcg aagaaattac ttgaaataaa aataaagatt tctatataga taaaaaaaaa 480
aaaaaaaaa 489

<210> 177

<211> 253

<212> DNA

<213> Homo sapiens

<400> 177

aattcggcac gagcccggw caggcacaca ggcccagggtg tgtaggccac agcagccgca 60
gtcctgaaag sctgcaacac ccagacctcc aggagagacc agggccagga tgcctcgcct 120
gttcttggtc cacctgctag aattctgttt actactgaac caattttcca gagcagtcgc 180
ggccaaatgg aaggacgatg tkattaaatt atgcggccgc gaattagttc gsgcgcarat 240
tgccattttg ggg 253

<210> 178

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<400> 178

aattcggcac gagagcttat tcattgaagg agtaagtggc tgctcactcc tttctgctga 60
aactctttcc tgtccttgta gcctagtgtg gaatgggagc agggtcacag tgaaagagct 120
gaatctcccc acccaccac actgcagcag gctgcggctg gccgacttgt taattgccga 180
gcaggaacac agcagcaagc tgcgggcacc cctnacttgc tacagttgat ggctgtgtgt 240
ctctcccagg acctagagaa aaccgscct gtgtacgagc gcatcactat cggcacattg 300
ttcatgtcct tcatgaacgr gttaaactgct gtttccgtgg rttttcaaaa aaaaaaaaaa 360
aaaaaaaaa aaaa'aaaaag ctcgagggtg ggc 393

<210> 179

<211> 465

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 179

attataagcg acgatggttc tgttgctatg aacacagcag tcgggtccctg tcattgtcca 60
cccaggagtg gccttggttaa ttccaagtgg catgtatctt ccctctgagc ttcatttctt 120
caagatgctc tgggtggtgg gatgggagac catcctgcag ccctcctcag accttatcaa 180
ttcattgaga gattgcaaag ctgaaagcac ctccggccac tcctgggaga cagacccttt 240
ggtgatgaaa taaaccagtg acttcagagc ctatggtctc aactgtgctt gaaaaacact 300
gtctctgaaa acaactttgt gattctccct gtcctctgtg gacaaaagca cataattctg 360

ctgttacggg tacttgnstc atacgagctt tcatgttcag catgcaatgg aatcatgctt 420
gtccatgtga aataaatatg gctctctcgt gtccttaaaa aaaaa 465

<210> 180
<211> 532
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (496)
<223> n equals a,t,g, or c

<400> 180
cttgggttca gggaaaccag agattatacc aagacgggtc attctgcgcc atggaaaaca 60
tccttggnat ttaattgctg ctgacaataa aggttaagggc tgggcttgga tacagcattc 120
cccagataga gatgctagan aaagtgcata gctatggggg gcacagctct gtttgccttc 180
atcattgtaa cccgtagaaa gaaaacttga gtaagggtcaa ggtttccatg ctttccttaa 240
agtgtggagc cttttattcc atgaaaagggt tacaacaaaa tccagggttat caagcaaata 300
aacaagcagt tcttactcag ataaacaaga tacacccctt caccctacct gctcaatttc 360
tctttctcca ctccccaaa cccacctcca ttgtagtcc tgcagggggg cccgtaagyt 420
tattttgaaa atcactaggg tgggctkggg cgcggtggst tcaggatgtw aatycagca 480
ctttggggrg gggccnggga aggcagttca ttttgggggc aaggggtttt tg 532

<210> 181
<211> 814
<212> DNA
<213> Homo sapiens

<400> 181
aattcggcag agtaaaattc aaataattat aagcatttgg caaaaacaag agaaaagaaa 60
cttgccatat ttacaagct gcaatttttag aaaagcttta acttaatgat agttttatca 120
ttgttttctt gtcccaaact tatccagggc catagaagta tgaatctaata taaaacagaa 180
atgggaatta ttgcacagaa atgggaaata actaatttta aatcagtgcaa attggcttct 240
tattaaatac aataattctt atgraaatca tagtacccta ttttcagaca cagctgccag 300
tttacacatt tctcagtatc ctgaarggra aaaagtatag ccccrcttat actatgtaaa 360
attaccaata aaatatTTTT atgactacag attttgcatt tttgtttaca actattttaa 420
gagttttatg ttgtatttag aatttcaacc tagaaaccac acagtactta aattctcctg 480
gggtctcctg ctttctctta accatttgct taatatatat ctacctaaag gagacttctg 540
aattgtaaat gaacttaaaa atagaatgtg gatgcaaaat atcacataag acatcatgat 600
aacatttgaa gaaaaataa aactgtagac cctaacagtt gtgatatttg gtggkttcat 660

gtggtaatgt aatcttctgk ttaattacag tactttttac aggcacagtg gkactgtctt 720
ttttgtaaga tgcyagttgt gaaatacaat taattgcata cagtaaaagt ctgtgattaa 780
aacatttata tacctcaaaa aaaaaaaaaa aaaa 814

<210> 182
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<400> 182
taattcggca cgaggaacca ctgttcctta caggtaagcc agcatgatag ttagaccaa 60
ccatcccaat agagacttgg catgcattca acaaacatcc caggtgcccta ggggtgtgcc 120
agcaccattc caggagctgc cagtaaagga aacaagactg ctgtgtggcc aggtgcggtg 180
gctcacatct gtaatctcag cactttggga atgccgaagt gaggatgca cctgaggtca 240
ggagttcaag accagcctgg gccaacatgg tgaaacccca ttttttactt aaaaaaaaaa 300
aacttggggg ggggncc 317

<210> 183
<211> 243
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<400> 183
tataaaagaa aaaaaaaggc tgtacaaaaa tttcttttrt acagagactg trtaaaagaa 60
aaaaaaaaag aaatacmgtg gttcttaaaa ccatttgtat attttcattt ctagaccaca 120
ctgtagctaa ttattgttat taaatgttaa gataatttaa gtatataana taagtattga 180
nccgggcatg gtggctcacc cctgtaaate tcagcacttt gggaaggctg aaggcggggg 240
gtt 243

<210> 184
<211> 1148
<212> DNA
<213> Homo sapiens

<400> 184
aattcggcag aggggccata caaaaatttt ggacttggtta ataccactta ctaaccgggc 60

ctgtaacact gggctaaaca aagtaagccc tgtttactca gcagtgtttg ggggacatga 120
agattgccta gaaatattac tccggaatgg ctacagccca gacgcccagg cgtgccttgt 180
ttttggattc agttctcctg wgtgcatggc tttccaaagg agtggagctg tragttcttt 240
ggaattgtga acattctttt gaaatatgga gccagataa atgaacttca tttggcatac 300
tgctgaagt acgagaagtt ttcgatattt cgctactttt tgaggaaagg ttgtcattg 360
ggaccatgga accatatata tgaatttgta aatcatgcaa ttaaagcaca agcaaaatat 420
aaggagtggg tgccacatct tctggttgct ggatttgacc cactgattct actgtgcaat 480
tcttggttg actcagtcag cattgacacc cttatcttca ctttggagtt tactaattgg 540
aagacacttg caccagctgt tgaaaggatg ctctctgctc gtgcctcaaa cgcttggtt 600
ctacagcaac atattgccac tgttccatcc ctgacccatc tttgtcgttt ggaaattcgg 660
tccagtctaa aatcagaacg tctacggtct gacagttata ttagtcagct gccacttccc 720
agaagcctac ataattattt gctctatgaa gacgttctga ggatgtatga agttccagaa 780
ctggcagcta ttcaagatgg ataatcagtg gaaactactt aacacagcta atttttttct 840
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aagatgatta ttgattgtsa gataggttag gttttggggg gccagtagtt cagtgagaat 960
gtttatgttt acaactagcc ttcccagtaa aaaaaaaaaa aaaaaaaatt gtaaacatca 1020
cttatattac tttattgcag cttcatcacc agtacattat atgttgtaat atttatttac 1080
ctgatcattt tgatcatttt ctgctttatt ttgctaataa actgtgatgt tacttctaaa 1140
aaaaaaaa 1148

<210> 185

<211> 1971

<212> DNA

<213> Homo sapiens

<400> 185

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agtttcctta cattttttta aattgtttca gagtttggtt tttttttagt ttagattgtg 180
aggcaattat taaatcaaaa ttaattcatc caatacccct ttactagaag ttttactaga 240
aatgtatta cattttattt tttcttaatc cagttctgca aaaatgacct ataaatttat 300
tcatgtacaa ttttggttac ttgaattggt aaagaaaaca ttgtttttga ctatgggagt 360
caactcaaca tggcagaacc atttttgaga tgatgataca acaggtagtg aaacagctta 420
agaattccaa aaaaaaaaaa aaaaaaaaaa aaaaagcaaa actgggtttg ggctttgctt 480
taggtatcac tggattagaa tgagttaaac attagctaaa actgctttga gttgtttgga 540
tgattaagag attgccattt ttatcttgga agaactagtg gtaaaacatc caagagcact 600
aggattgtga tacagaattt gtgaggtttg gtggatccac gccctctctc cccactttcc 660
catgatgaaa tatcactaat aaatcctgta tatttagata ttatgctagc catgtaatca 720
gatttattta attgggtggg gcaggtgtgt atttacttta gaaaaaatga aaaagacaag 780
atztatgaga aatatattgaa ggcagtacac tctggccaac tgttaccagt tggattttct 840
acaagttcag aatatattta acctgattta ctagacctgg gaattttcaa catggtctaa 900
ttatttactc aaagacatag atgtgaaaat ttaggcaac cttctaaatc tttttacca 960
tggtgaaac tataacttaa agaataatac ttagaagggt taattggaaa tcagagtttg 1020
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taaaatacta aaaggctcat ttttatattt gtttttagatg ttttaaatag ttgcaatgga 1200
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tatatgtttt gtcccagttg tatagtaatg tttcagttca tcatccagct ttggctgctg 1380
aatcataca gctgtgaaga cttgcctttg tttctgttag actgcttttc agttctgtat 1440
tgagtatctt aagtactgta gaaaagatgt cacttcttcc ttttaaggctg ttttgtaata 1500

tatataagga ctggaattgt gtttttaaag aaaagcattc aagtatgaca atatactatc 1560
tgtgttttca ccattcaaag tgctgttttag tagttgaaac ttaaaactatt taatgtcatt 1620
taataaagtg accaaaatgt gttgtgctct ttattgtatt ttcacagctt tgaaaatctg 1680
tgcacatact gtttcataga aaatgtatag cttttgttgt sctatataat ggtgggtctt 1740
ttgcacattt agttatttaa tattgagagg tcacgagttt ggttattgaa tctgtttatat 1800
actaaattct gtaaagggag atctctcatc tcaaaaagaa tttacatacc aggaagtcca 1860
tgtgtgtttg tgttagtttt ggatgtcttt gtgtaatcca gccccatttc ctgtttccca 1920
acagctgtaa cactcatttt aagtcaagca gggctaccaa cccacacttg a 1971

<210> 186

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<400> 186

aataacaatg taattatttt yggcakascc ttgcctgact tctgaggacc tcactaagtc 60
tagttctagc cttttagtaa tggccaactt ctttcatcaa ggctttgggt tcattactgg 120
tgtctgaatt agttccactc ctagcttgac ccagatttta gtttttatta tggatttttt 180
cttcaaactt gtttatttaa tattaagttt tcatttttgg cagcatatgg atgattttat 240
ttttaataat catatctctt agtaaaactaa tggktaaata atattaaagt ataagaggct 300
aaaattgggc caggtgtggt ggctcacgcc tgtaaatccc cgcactttng ggnggctgag 360
gcaggn 366

<210> 187

<211> 350

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<400> 187

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ataaatgggc ctaatagtgg gatggatata actgaaaact aagatggtga tgaggaagac 120

agtcaagaat aaatatacca aagtagcaaa gaaatacctg tgcaagtaga atagcttgct 180
tcaaacagat gagatttgct ctcccaacat caaaacatat cacaaaacta cagtaattaa 240
gtccctttga ggccagcact gactgggrta agcaaatagr taaatgggat gtaacaggcc 300
ttatttcaac taatagggtg ttcaccactc ctagtgggtt ncctgtttcc 350

<210> 188

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<400> 188

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gaaaaacttt gctattaata ggtgcaaagt ccatttcagg tataattggg aaggaactga 120
gtgcactcat gggaagaaac cttgttttgt tttttgttcg cttttcttct tatccccttt 180
tctcagtttt atggctggag acatgattta ttgcagccat ccattctggg ggctcatcca 240
tcacacccgg gttgctagga gattgtggca gcagctgttt gctctgaatc agacagaaaa 300
gttgtcaatc atcaaaggca ggtgaatagc attagaaaca cgstattgtc agacggaata 360
attaatcaaa gagag 375

<210> 189

<211> 365

<212> DNA

<213> Homo sapiens

<400> 189

tcagacaaaa attctgtgga cagctgcgag gaattcactt ttcctctgaa actcatagcc 60
ctctcctgaa tacatatggt gtgactaac acttgccatt atctgaaact catagcccta 120
tcctgaatgc atatgctgta ggttaccact tgccattgga ggtcttggag gccatatcct 180
gtaggagcag ggtagccatg ggacttaact actattatcc cccaaaaatg ttgtgtttgt 240
gaattcacct gactgaggaa tccctaawta ttcacagat atttcaaaag grtccatgtt 300
ccmaagragg rggttttagta ttgatttttg gttgggtttg ttttatttga ggcagtgggg 360
gatga 365

<210> 190

<211> 817

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (778)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (791)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (801)

<223> n equals a,t,g, or c

<400> 190

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ggcacgaggt taattttgaa acttatgctt aagatttaac cagggcagag gcatatttca 60
gcataaataa tgttgccatt ataaactctt atccttccta tctcaacagg aaatgagcaa 120
ttattgcttc atgcttcaat gcaactgtttt aaaataactgt ttaatttggt aaagggtgtga 180
actgtttaat ttatctcaca cgttttttta aacaaataact gattggacat gcgctgcacg 240
ccaggctttg ggcttggtac ctcagggttc tcacagggga ggctggaagt ggaaacaagc 300
acatgtgtaa ctgttggtga gacagtctaa ttggtagaaa atcagcgaac aaagaagcag 360
acaaattaga aaatgaacgt aagggtgatgt gctaaaaaga gggtagccat tatgtcagtg 420
tccttcagag aaggtagcac tccctgagac cggaatggca gaaagaagtc catcctgcct 480
agcccagctt ggacttggtg agaagcaggc tgataaaaaga accaaatatt gtacattttg 540
aagaagttgc cgcctgactt gagagagagg tgttgcgttt cagggtgctga atgtccttat 600
aaaaagttga atatttcgag catctctatc aatacatttg aatgctgaga gcttttcctt 660
ccagaagctc atgtcatttt caacacacac ttctattttac ctttatgtag tttctaaaaa 720
ttgaaaacca gaattggagg tttttttaa aaaaaaaaaa aaaaaagccg aggkgggnaa 780
agtamaaatg ngcctkwgcc ntttcctttc cccgtcc 817
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<210> 191

<211> 590

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<400> 191

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aattagaaag tccaaagtcg acccaaattg atattatggg cagaagtatg gtagagcaat 60
ccaaacaatt gggattatga atgggaaggt tgtaaaccct atattatttg cgtgtacgaa 120
ggaagaatcc tgtgacaagc acttactcca aaatgagtct acagttatac caagtggata 180
gtagaactta tctactggat ttccgtagta ttgatgatga aattacagaa gccaaatcag 240
ggactgctac tccacagaga tcgggatcag ttagcaacta tcgatcttgc caaaggagtg 300
attcagatgc tgaggctcaa ggaaaatcct cagaagtttc tcttacctca tctgtgacct 360
cacttgactc ttctcctggt gacctaactc caagacctgg aagtcacaca atagaatttt 420
```


ttgagatgtg tgcaaatcta attaaaattc ttgcacaata aacagaaaac ttgcttatt 480
tcttttgcag caataagcat gcataataag tcacagccca atgcttccca ttgtaatcca 540
agttatacct aatttttaac cgggggttng ggntttngga ttgcaatttg 590

<210> 192

<211> 308

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<400> 192

ggcacgagaa ataaccagct gacagcatga cgacaggata aaatccacac ataccattac 60
taaccttaaa tgaaaatggg ctaaatgctc ccattgaaaag acacggggca agctggataa 120
agaaccaaga cccactggag tatgctgtct tcaagaaacc catctcacat gcggtggcat 180
acataggctc aaaataaagg aatggagaaa aatatttcaa gcaaatggaa aacagaaaaa 240
agcaggtgtt gcactcctac tttctgacaa aacagrctwt gcggnntaaa ggkkaaaaaa 300
gnggaagg 308

<210> 193

<211> 343

<212> DNA

<213> Homo sapiens

<400> 193

aattcggcac gaggcctgga gaacctatgg tgattttcct gggcctgctc attgcccacc 60
attgaaccaa tcagcacaca tgcctctctt tctgagccca taaaaaccct ggactcagcc 120
agactcacac agacatcagg actaccagct gcgggaagga gctagccatc tcaggtctcc 180
ttgaatcatc cagatgacct gcctgtggaa aggagctacc catcacaggt ctacttcctg 240
atgagaactg gacattcttg ggatgacttg cctgcagaaa ggagcgacat attttgggtc 300
tyctgagagc tgttctgttg ctcaatgaag ttccttcatg cag 343

<210> 194

<211> 690

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<400> 194

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caaggacccc aacccttttg tcctctctac ccacagatgg ccctgggaat caattcctca 120
ggaattgccc tcaagaactc tgcttcttgc tttgcagagt gccatggtca tgtcattctg 180
aggtcacata acacataaaa ttagtttcta tgagtgtata ccatttaaag aatttttttt 240
tcagtaaaag ggaatattac aatgttggag gagagataag ttataggag ctggatttca 300
aaacgtgggc caagattcaa aaatcctatt gatagtggcc attttaatca ttgccatcgt 360
gtgcttgttt catccagtgt tatgcacttt ccacagtgg acatggtgtt agtatagcca 420
gacgggtttc attattattt ctctttgctt tctcaatgtt aatttattgc atggtttatt 480
ctttttcttt acagctgaaa ttgctttaaa tgatgggttaa aattacaaat taaattgtta 540
atttttatca atgtgattgt aattaaaaat attttgattt aaataacaaa aataatacca 600
gattttaagc cgtggaaaat gttcttgatc atttgcagtt aaggacttta aataaatcaa 660
atgttaacaa aaaaaaaaaa aaaagtcgac 690

<210> 195

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<400> 195

tggaatctgg ctagaaagca gtaataaaca gaaatctgta tatgtttgga aaaagtaaata 60
ctcaatggaa atcagaaaaat attttgaact gaaatttggt gatgaaaata ctatatatgg 120
aaacttgtag gatataattat agctaaagct gtgttagagg aaatttagag ccttacataa 180
atacatatat tataaaaaggg aaaatattaa aagttaatgg anctaaggga tccatct 237

<210> 196

<211> 267

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<400> 196

cccagagta gacacatctt agtatgtact cagctttggg caaaanatag atggcgtcac 60
ctttcttcgc atgctgagct ccatagtaga ttgaggactt gggttggaag cagtaaggta 120
attgccaaag cccattatc aggtgggtac acatagagct tttgggagga acagatgcca 180
taagttatca gtttagtctt accttctctt tagagggaaa agaagttgga gaaagcgtct 240
gcagctaaca aaaggtactg nccttgg 267

<210> 197
<211> 443
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<400> 197
attgccaatg ataaaaatttg aactttcaag caaaaatgca aattttggaa aatgtgttat 60
ttctgccact gagaacataa cagcatacca acacttttag actttttact tttatattgt 120
ataatgaatg catcaacatt tggatgatct gtattacagg tgaaccaaca ttttccagta 180
ttagtggttg ggaatgaccg tgtcwgagg cttgaccagg atggggatag ctcaaggagg 240
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gatttgcccc ctgcattggg gatgggttga ggaaaggcca aaaacctagg ttcttycags 360
ccatgggctt taaaaaacgt ggtacttttt aaggaacagg gttcanggca ggggtgtttt 420
tggggctagg gttaaggaaa atg 443

<210> 198
<211> 208
<212> DNA
<213> Homo sapiens

<400> 198
gaaaatgtgc ctttttcagt tgtcacagmt ggggaatgtt actggcatcc ggtgggtaaa 60
ggctagggat gctgctagac attctacggt gcacaggaca acccccacaa caaagaatta 120
tctagcccaa aatgtcaaca atgctgaggt tgagaagycc taggaaacta aaacagtgtg 180
ggggtttgta atttattgga aaccatgt 208

<210> 199
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<400> 199
attggttttg gccatgacac tgatttcctg gaggaagggt gctgcttcya ttcaggaatg 60
gggggtgcatg actgccctga gcagccaagg agccaattct ttaggaggct gagtgccatt 120
tcagctcaag ccttcacggg gcagggccaa aagcaacttn gaggggtggg tggagcatct 180
tccactgcag cttggcccca agaaataggw tgtagcagca gytcagcttg tgggatgggtg 240
cgcaacaatt tggggggg 258

<210> 200
<211> 893
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (870)

<223> n equals a,t,g, or c

<400> 200

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gttgggtagg ccatcaataa ggtccattct gggcagtatc tcaactgccg ttcaacaatc 120
gcaagaggaa ggtggagcag gtttcttcat cttacagttg agaaaacaga gactcagaag 180
ggcttcttag ttcattgttc ccttagcgcc tcagtgattt tttcatgggtg gcttaggcca 240
aaagaaatat ctaaccattc aattttataaa taattaggtc cccaacgaat taaatattat 300
gtcctaccaa cttattagct gcttgaaaaa tataatacac ataaataaaa aaatatattt 360
ttcatttcta tttcattgkt aatcacaaact acttactaag gagatgtatg cacctattgg 420
acactgtgca acttctcacc tggaaatgaga ttggacactg ctgccctcat tttctgctcc 480
atgttggtgt ccatatagta ctgatttttt tatcagatgg cctggaaaac ccagtctcac 540
aaaaatatga aattatcaga aggattatag tgcaatctta tgttgaaaga atgaactacc 600
tcactagtag ttcacgtgat gtctgacaga tgttgagttt cattgtgttt gtgtgttcaa 660
atttttaaat attctgagat actcttgtga ggctactcta atgccctggg tgccttggcc 720
agttttagaa ataccagttg aaaatatttg ctcaggaata tgcaactagg aaggggcaga 780
atcagaattt aagctttcat attctagcct tcagtcttgt tcttcaacca tttttaggaa 840
ctttcccata aggttatgtt ttccmgcccn rggsatgggg ggtcattggg gcc 893
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<210> 201

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<400> 201

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aaactcactg gctgaaggag gaaatttttag aaggaagcta ctaaaagatc taatttgaaa 60
aactacaaaa gcattaacta aaaaagttaa tttycctttt gtctgggcag tagtgaaaat 120
aactactcac aacattcact atgtttgcaa ggaattaaca caaataaaag atgccttttt 180
acttaaacac caagacagaa aacttgccca atactgagaa gcaacttgca ttagagaggg 240
aactgttaaa tgttttcaac ccagttcatc tgggtgatgt ttttgagggt tactctgaga 300
attttgctta tgaaaaatca ttatttttag tgtagttcac aataatgtat tgaacatact 360
tctaatacaa ggtgctatgt ccttgtgtat ggtactaaat gtgtcctgtg taccttttgc 420
acaactgaga atcctgcagc ttgggtttta tgagtggggg catggaataa ttatgggggn 480
atgtaaaaaa aanaaaagag ggg 503
```

<210> 202

<211> 438
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<400> 202
catgtgatca tttatgtgta tacagagtaa ttataaaatg tttgctgtgt acaaaactat 60
tttattagtg gattttaaat acattaaatg ggtatatata gtatatatga tctaggagta 120
tatataggga actctaacaa atttataata tttatttttt aaaagaatga ccaaactatgg 180
caaaatatta ctatgagtta gatctggaca gtggatgcaa ggtcttcat tatgttattg 240
tctgattttg tgttgaactt atttcacaat gcagaggaaa aaatagtctt ggctcatcct 300
tagatatcac tgttcataga gccagtcacc aggacgatcc cacnttttat ggtgggccag 360
gcattgggag tccagagccc atcacccaac naccaagtga cgggtgggga cncgtgtgag 420
cctgnaaagg gggccatc 438

<210> 203
<211> 876
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (778)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (786)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (804)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (817)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (835)

<223> n equals a,t,g, or c

<400> 203

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cggcgatata tactaaattc gcgcgtgact tcatgagtag tagtgaatac aatcttcctg 60
cttctaagct tgtgtctact agaattgtctt cccctaaaa gatataatttg aatgtttccc 120
atgtttcttc tagtacttta atgcgtttca tttcataty gaaatcattg atctacttct 180
agtttykgat acaamatgtg agccaggaaa ccagttttt aaatttcaaa tagctgtcca 240
ggtgtccctg cacctcttat gcatgagccc tcgttttgtg ccaatgtgga gtgcccgcct 300
gctcacacgt gcccatgtgg agtgcccgcc tgctcatgtg cccatgtgga gtgcccgcct 360
gctcacacat gycgatgcgg agtgcccrcc tgctcacaca tgcccatgtg gagtgtccgc 420
ctgctcacac gtgcccgtgt ggagtgcccg cctgttcaca cacgtgtcca tgtggagtgc 480
ccacctgtct atgtgcccgt gtggagtgcc cacctgtctc catgtgccga tgtggagtgc 540
crcctgtctc cacacgtgcc catgtggagt gccgcctgc tcacrygtgc cgatgcggag 600
tgccgccttg ctcacacgtg ccgatgcgga gtgcccgcct gctcacacgt gccgatgcgg 660
agtgcccgcc tgctcacacg tgcccatgcg gagtgccgcg ctgctcacac gtgccgacgc 720
ggagtgtccg cctgttcaca cgtgtccgac cgagtgccc gcctgtcac acgtgtccnac 780
gcggantgcc cgctgtctca cacntgccga cgcggantgc ccgctgtctc acacntgccc 840
atgtggagtgc ccgctgtctc acgttgccga tgtgga 876
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<210> 204

<211> 1504

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1494)

<223> n equals a,t,g, or c

<400> 204

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tgtnytcmt gtgcnaaac cygcycgaga ctggggcccy tctcagttaa ttgggtttca 60
caagcaataa tttctccaca acaaaaacca caacttgaag tgagttgaaa agagatcaat 120
agtggaaaca gtcgcctcag tactttttct ttctggattt catctctaga aatttgaagt 180
gtttgagaca gagtccaccc tttgtgcaag gcgagaacca atgaatggac tccttgtgtg 240
aattattgca tcttcttcca aagcaggttc atcaagactt tcacagagat tcatttttgt 300
tgagaagtaa gggttaatag gaggatagaa tttggatcca aatctagtga taaaagtgtc 360
caagcaatca aaaagtaaga tatttttaggg acataccaac atcttccctt tctgctaatt 420
tcatgctcca aagatatrgc aaaaaaaaa atcataaaaa gtgcttttgc cctacttgtg 480
ttctagtttt cccatggcag aattttgtaa ttacatccag aatatagtgt atattttgtt 540
cctcaaaactt tattacattg gatggatatt gttgractgg ggcactggtg cctatatcca 600
aggctctttc ctatcaacgt gtctgtccac gatttgttgt gtttaaagct tcattttgaa 660
aaatcactgt cccctgtgg gtagtgactg tattgttttg ttcatgtcta tgtgggacac 720
attgcatcac atggcaaacc aactctctgt ggatgtgaga taagtactta taaaaccagc 780
ttgaaaacat cgtcttatgt attatgtcat cctgcatcat aatgcaatta tgtgtatcat 840
aacatgctca tttaaaaaaa gagaaaccag caaattcatg tttgtccata gaagaatgta 900
ctcagaactt tgtgttggtg aacgatgaga acagaccacc tttagatac ccacctgcca 960
cttaaaatga cttagtata attagtagta gtctagacgt tgttcttggg gtgtgggggt 1020
caattctaac gtcattgttct tttgaataaa tctctcagtc atatttgaaa aaaaaatata 1080
tgggaataaa gaaaaatatc atctttggcc aaatcaagca ggcacttttt ttcttttctt 1140
tgacgtttag ctcatattac gtggtgattg gatcacgaga tctgtccgtg tgaaaatata 1200
gaaacatcct ttagtttaca aaacagttat tctaggcttg aagcctcttg aacagcaaat 1260
tgaatagatg ggctgcatct gatttgcttt atggatgtaa ttttacaaaa cactcttggg 1320
tctctgaccc caggaggtta agagtgccca gaggaggtcc tacacattaa aggataaagc 1380
ccccagtgta tgctggcagc aaatgtgttg agttcttaaa tcttccattt ggktttctgk 1440
ttcaggtttt taattgcaat ggattttntt tccccgttt tttcttaagg gccncatttt 1500
ccca 1504
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<210> 205

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<400> 205

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agtcttggtc ctaatgcact tgtccacatc gtatgtcatt acaagtnctt ccccttcttt 60
aaccagaggg catagaattg gggcttagtg tgcctaaac aagctaaaag attccacctg 120
tagaatcata aaatgagagt ctacacagc ttcatgctac tttttgtctc ttcagcaagg 180
aacggttgct gggattgtca gtgaccaggc atgtctggat agcttcacac atacacataa 240
tgccccgttc acctcagccc acacatgttc tagaagtagc cacttgccaa gtgtcagtgt 300
tcagtctaaa cagcaaatgg gttaaccaca tgaacagcac tggcccatgt gagaatgggtg 360
tgaaggcctc ctttgtacca ttttccattt ctctaactca catgtgtagt ctcagcactg 420
cagaggacag atttgtttgt gccctctgag actggttggt tggttggttg gttagttttg 480
```

ttttatgaat cctaaaattt gtcttggsc ttttaaaaaa aaatt

525

<210> 206

<211> 2494

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2471)

<223> n equals a,t,g, or c

<220>

<221> misc. feature

<222> (2485)

<223> n equals a,t,g, or c

<400> 206

caaagaaaca ttggaacaa tttctaataga agaacaaaca cctcttctta aaaagattaa 60
cccaaccgaa tctacttcca aagcagaaga aaatgaaaaa gttgattcaa aagtgaagc 120
tttcaagaaa ccattgagtg tatTTaaagg ccccttacta cacatcagcc cagcagaaga 180
actgtacttt ggaagtacag aatccggaga gaagaaaacc ttaatagtg tgacaaatgt 240
aactaaaaat atagtggcat ttaaggtgag aacaacagct ccagaaaaat acagagtcaa 300
gccaagcaat agcagctgtg acccggtgac atcagtggt atagtgtgt ctccccatgg 360
gggtttaaca gtctctgccc aagaccgttt tctgataatg gctgcagaaa tggaacagtc 420
atctggcaca ggcccagcag aattaactca gttttggaaa gaagtccca gaaacaaagt 480
gatggaacat aggttaagat gccatactgt tgaaagcagt aaaccaaaca ctcttacgtt 540
aaaagacaat gctttcaata tgcagataa aaccagtgaa gatatatgtc tacaactcag 600
tcgtttacta gaaagcaata ggaagcttga agaccaagtt cagcgttgta tctggttcca 660
gcagctgctg ctttccctaa caatgctctt gcttgctttt gtcacctctt tcttctattw 720
attgtacagt taaagaagtg gtgcccggta ggaaccacgg ttccttcgtc cattagttgg 780
aaaagtaaca gacctaaaac tctaccaagc tactaaaamc attgcacatc tgtgcttcct 840
aaaaggaaat atgcagcacg tggaggggaa cacatacatg tcttgaaaat aaactgctag 900
aataaagaaa tgctggagaa attgattata agagactata gctatttagt aaagtaagta 960
aaggcatatc cattgtgtaa attaatagtt taaatataat ttatttttct cttttgatct 1020
gaatactttt aaagcttaag ttttatcgtg taaatacatt agctaaactg aaaagtataa 1080
gtaacatgct ttgttgacg caaaaaatgt aatctgcttt tttatgacag aattattata 1140
gctgagctga cttactagct tttctatact atgtatatag aagaacatgt atattgagaa 1200
agaaaacata cttatataga ggaatttatg taacctagac tttgtaattt tgagaattcc 1260
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acactctcat ttcagtagaa tttggaaaac taagcgtggt tggaatttct ttgaattctg 1440
ttagtaaatgc ccaaaagaaa agtctcaagc agtcccccta tccagtcatt tttatggagt 1500
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accctctatt gtcccatctt caccctccatt ccagagcaga ggagtctctg tggacctga 1620
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ggttagttgt ttgagatgct aagcaggata ataaatttag attttaaaat gttccctgta 1740
aaagtcagcc catgacaagg aaatttacia aatactagag tatctagaag ggtgaaaaca 1800
aaaaaaaaawa aaaraaaca cagacgcca ggtgtcagct ctccgtttta agaataaaaa 1860
atgtaactca tgatgatctg tgaaaccttc aaactaggac caattgactt acttgatatt 1920
ctgcctttga tatggtagta cccacccggt attcctaaaa tcctaaaaag atacaccttg 1980

cagtagcaga ggcaatgaca tgagtttggt ttctcattaa tatgaccagt ttgggtctat 2040
gttggttcac atgtacatct actttatatg aaagaaaaaa cagttgtctg cctgtaaaat 2100
gttgagtttc gattgagcca tgtttggaaga ttttattact attctgaagg gtagtggtgt 2160
tggttttcat cttcaagaag ttgattccaa aactgagtta tgaagaatga tataacagtt 2220
ccttcaaaaat tggccttagga aataaaacct taaaaggaca ctggtgtgct actttgtctt 2280
aatttggtgct tttctgtttc agtttgccac ctccagctgt gaaatggact gcagtccacc 2340
ctaagtactg tgcacagtat ctccctgtgt gtgtgcacag tggcttcccc ttacatggta 2400
gatttttggt cttaatataa tctaattcca aagtagttgt gtatgttttc tgttccttgg 2460
caataaaatg naggaataat ttagnccaag attg 2494

<210> 207

<211> 880

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (864)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (865)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (868)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (878)

<223> n equals a,t,g, or c

<400> 207

gggcacgagc tttgacccat tcaaggatgt ctctgcctgg agaactagat cctgactcag 60
tggcagcata ggttctcccc cagggtggtg ctgaacttca gctcagaagc agcctggacc 120
ccatcttacc tccagataag gtgttttagg tactctgttg ccagtgttag tgcaacttag 180
tttaaaaata gaggacttgt tcacagtatg ctctaagtct cacactggag ttttgtgcaa 240
cataaagtag gtgattttgg agcagagcga agtctagaaa tttgccttaa attatttgtg 300
gtactctaga gaacgtggta tgtgtatgtg tgtatgtgtg tttgaatata ggaactagtt 360
cattgaacgt tagattgttc taagaccaga attagattaa aaatgcataa catattaagt 420
attaaaaagt gtttatattg tatatgaatt ttttgcggtg agtttagctt ggcatthttg 480
gttttaattg atgcttaatc tgttaaaatg atgtactgta ttttaaagta ttctaattgt 540
gcttttttgt accatcttca gtatgaaaaa tgtcagtatt tagttccttt ctcaggcaca 600
attagatttt tattgacatt gttttcccc ttaactcatg taattagtca tagcaaccaa 660
gagtcaagag agtgattacc agccaattaa gaaaaatgtg accaagcaga ttgcagagta 720
caataaaacc atcgtggatg ctttacatag catcagcgga aactgagttt aagtccactg 780
aaagtctcta aggaagtatc ctcttgctgc taaacttggg acaagttgac taccaaaaaa 840
aaaaaaaaaa agccgaggkg ggcnnngtnc aagggccntg 880

<210> 208
 <211> 640
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<400> 208
 tnagngaattg gacttggctc tgtaaaggat ggggaacctc acttcgtggt ggtccactgc 60
 acaggctaca tcaaggcctg gccccagcag gtgtttccct cccagatgat gaccagcct 120
 gaggtcttcc aggagatgct gtccatgctg ggagatcaga gcaacagcta caacaatgaa 180
 gaattccctg atctaactat gtttcccccc ttttcagaat agaactattg ggggtaggat 240
 aaggggtggg ggagaaaaaa tcaactgtttg tttttaaaaa gcaaatcttt ctgtaaacag 300
 aataaaaagt cctctccctt cccttccctc acccctgaca tgtacccctt tcccttctg 360
 gctgttcccc tgctctgttg cctctctaag gtaacattta tagaagaaat ggaatgaatc 420
 tccaaggctt ttaggactgt ctgaaaattt gaggctgggt gaagttaaaa cacctttcct 480
 tatgtctcct gacctgaaat tgtatagtgt tgatttgtgc tgagatcaag aggcaggtta 540
 gawgaacctg acatccactg yttgccttgg atagtatggc ttgwtttttg aaagaaattc 600
 tgaagagwgt ggaaggagag gagaaatgtc ctcatatttg 640

<210> 209
 <211> 303
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (85)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (92)
 <223> n equals a,t,g, or c

<400> 209
 ttgagcactt tctatctact agtcactgtg atacagtata agtaaagtgg gttgtctcat 60
 ttaatatcca gaataaccac atgangtatg anctgccatt atctttcccc tttgtacaaa 120
 tgaggaaaagt gaggctcaca gaagttaatt ggcccagggt cccacaacta gtcagtgcag 180
 aggtgggggra acataaccag atttgttcgg catgkaactt gtgccaaaatt tcctccaaag 240
 ttcttcaaaag ggcaaggcat gtttatttta tccaatttta ggcataccaa caactttaat 300
 act 303

<210> 210
<211> 1168
<212> DNA
<213> Homo sapiens

<400> 210
ggcacgagcg gcasgasctt gtctgaacat aatgatttca aaatttgagc ttaaaaaatga 60
cactctgaaa tccagtcagt gtgcctcact agacttttcg atttcaagat tttctgcaga 120
aaatgttttg aaaactttga atacttaaaa atggcaggtg tagtattgca ctttgctagt 180
tgctcagata ccctttttta tttgtataga tattctgagt tccttttttt ttctacatgt 240
tgtacgttggt cgaaagctaa aaggaaactt atccttggat cacggaaggc agaggcattt 300
ggtgagatgg aaacaaggat gtgtaaaaat gagacgacca cctctcggat taaaaaaaaa 360
aagtgccaga gttctagggt tctaagtgat gtccaggaag gaggaggaat aatattttatg 420
gagcatatat tatggaacac agcaatcagg atgagtgaat aattgatttg cagctgacct 480
gcaaatggaa tcatcaggaa catccctttc tcatggagtc ccttaattta caagttaact 540
gcaaacatag gagatgatag ttccaagaag gaacatttta tcgtctttgt ttttaatctc 600
aagaatggta cctaccatca gtgaatgacc tggtgcagtg ctttcattga agtgttcttc 660
gttccctcag caatatgatt gtgatgactg aaaaaggga actgtgccac tatttgtacc 720
atcattttca ccaaatcta aaaatgcttt ttatgacgta tggagacatt cttcatgttt 780
gtttcagtgg aactccttg cagatgtaaa aaactgagaa aactcacttt tggaaagtga 840
cctaaagagt gtcattgaag tgaattttta gtaggcacga tgattgtwtt catggttgct 900
gttgatcat atctcaggag ctggaatgac agacattatt gaacaaagaa atcaggatag 960
tggaacttaa agggcttcat ctcagtgyt tcataagtat gaagtgcata tatttataat 1020
tttcastaat cacagggtaa atataaaatt gattcattaa aaatgtttca taagaattca 1080
aaggacatag aattttgtga aatgtagtat ttttacttaa gtgcctttac tctgcttcta 1140
ccccacagcc aattttttat aaaccagt 1168

<210> 211
<211> 3133
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3069)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3085)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3114)
<223> n equals a,t,g, or c

<400> 211
cagacctcgg acgagagcgc cccggggagc tcggagcgcg tgcacgcgtg gcakacggag 60
aaggccagtg cccagcttga aggttctgtc accttttgca gtggtccaaa tgagaaaaaa 120

gtggaaaatg ggaggcatga aatacatctt ttcgttgttg ttctttcttt tgctagaagg 180
aggcaaaaaca gagcaagtaa aacattcaga gacatatgtc atgtttcaag acaagaagta 240
cagagtgggt gagagatggc atccttacct ggaaccttat gggttggttt actgctgaa 300
ctgcatctgc tcagagaatg ggaatgtgct ttgcagccga gtcagatgtc caaatgttca 360
ttgcctttct cctgtgcata ttctcatct gtgctgccct cgctgccag aagactcctt 420
acccccagtg aacaataagg tgaccagcaa gtcttgcgag tacaatggga caacttacca 480
acatggagag ctgttcgtag ctgaagggt ctttcagaat cggcaacca atcaatgcac 540
ccagtgcagc tgctcgagg gaaacgtgta ttgtggtctc aagacttgcc ccaaattaac 600
ctgtgccttc ccagtctctg ttccagattc ctgctgccgg gtatgcagag gagatggaga 660
actgtcatgg gaacattctg atggtgatat cttccggcaa cctgccaaca gagaagcaag 720
acattcttac caccgtctc actatgatcc tccaccaagc cgacaggctg gaggtctgtc 780
ccgttttctt ggggccagaa gtcaccgggg agctcttatg gattcccagc aagcatcagg 840
aaccattgtg caaattgtca tcaataacaa acacaagcat ggacaagtgt gtgtttccaa 900
tggaagacc tattctcatg gcgagtcctg gcacccaaac ctccgggcat ttggcattgt 960
ggagtgtgtg ctatgtactt gtaatgtcac caagcaagag tgtaagaaaa tccactgcc 1020
caatcgatac ccctgcaagt atcctcaaaa aatagacgga aaatgctgca aggtgtgtcc 1080
agaagaactt ccaggccaaa gctttgacaa taaaggctac ttctgcgggg aagaaacgat 1140
gcctgtgtat gagtctgtat tcatggagga tggggagaca accagaaaaa tagcactgga 1200
gactgagaga ccacctcagg tagaggtcca cgtttgact attcgaaagg gcattctcca 1260
gcacttccat attgagaaga tctccaagag gatgtttgag gagcttcctc acttcaagct 1320
ggtgaccaga acaaccctga gccagtggaa gatcttcacc gaaggagaag ctcagatcag 1380
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 <222> (613)
 <223> n equals a,t,g, or c

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 <222> (660)
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<211> 2636
<212> DNA
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<400> 214

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<211> 1822
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<222> (1816)
<223> n equals a,t,g, or c

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<222> (1821)
<223> n equals a,t,g, or c

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<210> 216
<211> 3127

<212> DNA

<213> Homo sapiens

<400> 216

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<211> 1529

<212> DNA

<213> Homo sapiens

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<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<400> 217

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<210> 218

<211> 1100

<212> DNA

<213> Homo sapiens

<400> 218

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<211> 1792

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<400> 219

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agcagcagcg tcccgtagcg ctgcaggac tcggtgcaca gcagccctga ggacggcggc 120
ggcggcgsgg accgcmtggg cgggaccggc gggccgcgcc tggtagtcgg ctccctacca 180
gctcacctct cgcgcacat gtttgaggga tttaagtgc ctgtatgctc aaaatttgta 240
tcctcagatg aaatggattt gcatcttgta atgtgtttaa caaagccacg aataacctat 300
aatgaggatg tactgagtaa agatgctggg gaatgtgcaa tatgccttga agaattgcag 360
caggagata ctatagcacg actgccttgt ctatgcatat atcataaagg ctgcatagat 420
gaatggtttg aagtaaatag atcttgccct gagcaccctt cagattaagc gtcannttcc 480
tgttttatag gttttcttgt cttgacaaga tgcttgaaaa accaagagga yatgaaaatc 540
tgtctctgga gaaacaaaga cgcaggcata ctgagccaga aatctgagtt ttgtgagact 600
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tggtaataca gagatggaca atcgtactgg ggtaaaaaaa ccctgctgaa gagaggacag 660
tgaccacaga actcagtgtgta ccaaacatgc atacaaagga cacacaggga ttttgaaaat 720
gctgcacatc ccttaatagt catctacata ggtaatactg ataaacattt tgtattcaga 780
cgccaaagt aactgattta aaagttgatt tactttttat taagttctcc agagctgcac 840
aactagttat gttttgattt gttttgtttt ttaatttggg gtctctttgt tttccccaac 900
ataatgttca taatgtttct gcattcatct gttcttaaat tgaaaaacat ataatttact 960
tcttataaat tgaagtctta aatgtgaaac caagaaatgt aatcaagcag taaaaacatc 1020
tgaatgtaga ccatgatctc aagttcttcc attttctccc ccacgagtgg aaaatagact 1080
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cagtccaaag agcaaatcat attacataat tacattttta ttaaataatag aatattctac 1200
tgaattgcaa tttattaaat attcttatcc tcttaataaa aactgctcaa cagttaatca 1260
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gattttatat acctttaaaa actgtaattt aattgggatg ccaggtttat agcaatttgc 1560
aactttaatt ttccagataa tctggaggtt agcatttgat aaatgatttt ttaaagtaga 1620
tatgaagatt ttgttaattt ataatttatt catgtgttat tactgtaatt gaaaatgtta 1680
tagacacttt taaattcagt ttgtgtagaa agaaatgtgt taaacaaaat tatgttaata 1740
aatattcccm cataataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1792

<210> 220

<211> 1310

<212> DNA

<213> Homo sapiens

<400> 220

tctgcctggg atgtaaaccg gaccagccgc tgcgggcaga aggaaggctc ttggctcctt 60
cgggaaaccc agccccgtca ccgggctccg agcggtctgc aggcgacgac acgkcctcag 120
ccccggcagc gccyagcgkc ggctgcggaa agcggaggga gtccgacgag ggcgcgggag 180
gggagcgtgc gtccgttcgc acaggcagcg ggaggagggg cggcgcgagc catggccggg 240
gacagcgagc agaccctgca gaaccaccag cagcccaacg gcggcgagcc ctcccttata 300
ggcgctcacg gggaacagct agcggcaagt ctcccggtgt tgctaagatc gtgcagctcc 360
tggggcagaa tgaggtggac tatcgccaga agcaggtggt catcctgagc caggatagct 420
tctaccgtgt ccttacctcg gagcagaagg ccaaagccct gaaggsccag ttcaactttg 480
accacccgga tgcctttgac aatgarstca ttctcaaaac actcaaagaa atcactgaag 540
ggaaaacagt ccagatcccc gtgtatgact ttgtctccca ttcccggaag gaggagacag 600
ttactgtcta tcccgcagac gtggtgctct ttgaagggat cctggccttc tactcccagg 660
aggtacgaga cctgttccag atgaagcttt ttgtggatac agatgcggac acccggtctt 720
cacgcagagt attaaggagc atcagcgaga gaggcaggga tcttgagcag attttatctc 780
agtacattac gttcgtcaag cctgcctttg aggaattctg cttgccaaca aagaagtatg 840
ctgatgtgat catccctaga ggtgcagata atctggtggc catcaacctc atcgtgcagc 900
acatccagga catcctgaat ggagggccct ccaaaccgga gaccaatggc tgtctcaacg 960
gctacacccc ttcacgcaag aggcaggcat cggagtccag cagcaggccg cattgacccg 1020
tctccatcgg accccagccc ctatctccaa gagacagagg aggggtcagg aggcactgct 1080
catctgtaca tactgtttcc tatgacatta ctgtatttaa gaaaacacca tggagatgaa 1140
atgcctttga tttttttttt ctttttgtac tttggaacga caaaatgaaa cagaacttga 1200
ccctgagctt aaataacaaa actgtgccaa ctactactgg tgatgcctaa ttatgaatcc 1260
aacgtgtaac cagttataaa tacatatata tataaaaaag gaaaaaaaaa 1310

<210> 221

<211> 1369
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1347)
<223> n equals a,t,g, or c

<400> 221
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agcacagttt ggaacaacag cagagatata tgcctatcga gaagaacagg attttggaat 120
tgagatagtg aargtgaaag caattggaag acaaagggtc aaagtccttg agctaagaac 180
acagtcagat ggaatccagc aagctaaagt gcaaattcctt cccgaatgtg tgttgccctc 240
aaccatgtct gcagttcaat tagaatccct caataagtgc cagatatttc cttcaaaacc 300
tgtctcaaga gaagaccaat gttcatataa atgggtggcag aaataccaga agagaaagtt 360
tcattgtgca aatctaactt catggcctcg ctggctgtat tccttatatg atgctgagac 420
cttaatggac agaatacaaga aacagctacg tgaatgggat gaaaatctaa aagatgattc 480
tcttccttca aatccaatag atttttctta cagagtagct gcttgtcttc ctattgatga 540
tgtattgaga attcagctcc ttaaaattgg cagtgtctatc cagcgacttc gctgtgaatt 600
agacattatg aataaatgta cttccctttg ctgtaaacaa tgtcaagaaa cagaaataac 660
aaccaaaaat gaaatattca gtttatcctt atgtgggccg atggcagctt atgtgaatcc 720
tcatggatat gtgcatgaga cacttactgt gtataaggct tgcaacttga atctgatagg 780
ccggccttct acagaacaca gctggtttcc tgggtatgcc tggactgttg cccagtgtaa 840
gatctgtgca agccatattg gatggaagtt tacggccacc aaaaaagaca tgtcacctca 900
aaaattttgg ggcttaacgc gatctgctct gttgccacg atcccagaca ctgaagatga 960
aataagtcca gacaaagtaa tactttgctt gtaaacagat gtgatagaga taaagttatc 1020
taacaaattg gttatattct aagatctgct ttggaaatta ttgcctctga tacataccta 1080
agtaaacata acattaatac ctaagtaaac ataacattac ttggagggtt gcagtttcta 1140
agtgaactg tatttgaaac ttttaagtat acttttagaa acaagcatga acggcagctc 1200
agaataccag aaacatctac ttgggtagct tgggtgccatt atcctgtgga atctgatatg 1260
tctggtagca tgtcattgat gggacatgaa gacatctttg gaaatgatga gattatttcc 1320
tgtgttaaaa aaaaaaaaaa aaaaatngct gcggccgaca agggaattc 1369

<210> 222
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (585)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (636)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (699)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<400> 222

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tgcgagaaga cgacagaagg ggagagactt gagggaggcg ctgcgactga caagcggctc 60
tgcccgggac cttctcgctt tcacttagcg ctgcaactcaa tggaggggag ggcaccgcag 120
tgcttaatgc tgtcttaact agtgtaggaa aacggctcaa cccaccgctg ccgaaatgaa 180
gtataagaat cttatggcaa gggccttata tgacaatgtc ccagagtgtg ccgaggaact 240
ggcctttcgc aaggagagaca tcctgaccgt catagagcag aacacagggg gactggaagg 300
atggtggctg tgctcattac acggtcgga aggcatgtc ccaggcaacc gggagaagct 360
tctgattggt cccatgcagg agactgcctc cagtcacgag cagcctgcct ctggactgat 420
gcagcagacc tttggccaac agaagctcta tcaagtgcc aacccacag gcttgcttcc 480
cccagagacac ccattcttac ccaaggtgcc caccctttcc cttacccaaa aaatcaaggg 540
ggaaattttt acccaaagggt tcccccaact ttnggcccaa cgggnaacc ccaaaggana 600
caaaggaggg gtattattca gggttgcccc acccanttaa ggttgcaagg aggaaaggca 660
ttttgggggg ggaaccagg tttggggccc ccaacgttng ggtataaaaa agggttgttt 720
ccaggaggag gattgggcaa agttgttcct attttctttg gttaggagcc tntttaacaa 780
aaccagctt gt 792
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<210> 223

<211> 921

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (851)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (885)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (911)

<223> n equals a,t,g, or c

<400> 223

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gccccctctg cagtaccccc gccctcttc tcccaccaca atgagatcct aagatggcgg 60
tggtcgcggc ggttggcgct gcgtactgag gtcgaaaagg cggccactgg ggccgaggca 120
gccaggaaac gtgtgggcct ctctgctgcg gtctccgagg gccgaccgct gccggcggcg 180
ggctcggggg gctgactgtc gctctgcctt tgacaggaga ggctgcttct tgtagaggaa 240
acagctttga agtgtggagc gggaaaggag cagtttctga gctgcaaaaa ctagtttcta 300
aacagagagt taattgttaa atccagtatg gccacaggag gaggtccctt tgaagatggc 360
atgaatgatc aggtattacc aaactggagt aatgagaatg ttgatgacag gctcaacaat 420
atggattggg gtgcccaca gaagaaagca aatagatcat cagaaaagaa taagaaaaag 480
tttggtgtag aaagtataa aagagtaacc aatgatattt ctccggagtc gtcaccagga 540
gttggaaggc gaagaacaaa gactccacat acgttcccac acagtagata catgagtcag 600
atgtctgtcc cagagcaggc agaattagag aaactgaaac agcggataaa cttcagtgat 660
ttagatcaga gaagcattgg aagtgattcc caaggtagag caacagctgc taacaacaaa 720
cgtcagctta gtgaaaaccg aaagcccttc aactttttgc ctatgcagat taatactaac 780
aaggagcaaa ggtgcatttt acaagtcccc caaacagagg aaacggttgg gttcagcaca 840
gtgttaaagg nttgttttgc tttctggttt ttaagtaatt gaccnctttg gccanacttt 900
tccgggtggt ntgaaggagg t 921
```

<210> 224

<211> 1979

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1949)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1953)

<223> n equals a,t,g, or c

<400> 224

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ggcgccgccc aagcgccaga cgcgagctgg gaaaaggagg gcagaggagg cggaggcaga 60
ggcagaggca gagcccggtg ccgagaccaa gcgacagacc ggcggggctg ggcctcgcaa 120
agccggctcg gcgagctctc ccgacacccg agccggggag gaaaagcagc gactcctcgc 180
tcgcatcccc gggagccgca ctccagactg gcccggtagt caggggctca ggagcagatc 240
ccgaggcagg ctttgctcag cctccgacga gggctggccc tttggaaggc gccttcaaca 300
gccggaccag acaggccacc atgaccgaga attccacgtc cgcccctgcg gccaaagcca 360
agcgggcca aaaggccaag aagtccacag accaccccaa gtattcagac atgatcgtgg 420
ctgccatcca ggccgagaag aaccgcgctg gctcctcgcg ccagtccatt cagaagtata 480
tcaagagcca ctacaagggtg ggtgagaacg ctgactcgca gatcaagttg tccatcaagc 540
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gcctggtcac caccggtgtc ctcaagcaga ccaaaggggt gggggcctcg gggtccttcc 600
ggctagccaa gagcgacgaa cccaagaagt cagtggcctt caagaagacc aagaaggaaa 660
tcaagaaggt agccacgcca aagaaggcat ccaagcccaa gaaggctgcc tccaaagccc 720
caaccaagaa acccaaagcc accccggtca agaaggccaa gaagaagctg gctgccacgc 780
ccaagaaagc caaaaaaccc aagactgtca aagccaagcc ggtcaaggca tccaagccca 840
aaaaggccaa accagtga aa cccaagcaa agtccagtgc caagagggcc ggcaagaaga 900
agtgacaatg aagtcttttc ttgcgacac tccctcctgt ctctatttt ctgtaaataa 960
ttttctcctt tttctctct tgatgtcac caccacctt tgccccctt tgttctgact 1020
ttataagaga caggatttg attcttcaga aattacagaa taattcattt ttccttaacc 1080
agttgtgcaa ggacagcaac aaccaatcta atgatgagaa tgtacttata ttttgttttg 1140
ctattaacct acttacggg ttagggattt gcgggggggc ttgtgtgtt tgttggcttg 1200
tttgccatga aggtagatgt ggtgaggag aagacacaag gcagtttgtt ctggctagat 1260
gagagggaa ccaggaattg tgaggttagc aggaatatct ttagggtag ttagttttcc 1320
ttgagttggg caccggtgt gagagtttca gaacctttg ccagcaggag agaggtggt 1380
gggagcagcc agccggcaaa ggaaggagg ggaaaaaaac cgccaccggg ctgacttcca 1440
cctcccagtg gtgagcagtg ggggccccaa cccagtttcc ttctcatttt tgttagtttg 1500
cccttcggc ctccctattt tcttagggaa ggggagtggt gtccaagtga cagctggatg 1560
ggagaagcca tagtttctcc cagtgcagct aggatgtagc cattggggga tctttgtggc 1620
ttcagcaaat tctcttgta aaccggagtg aaaacttcag ggaagggtg gggagtcagc 1680
caagtgcctc agtgtgccct gttgaaactt aggtttttcc acgcaatcga tggatttgtt 1740
cctaggaaga cttttctttt cctctggatt tttgttcctc ctgtacaaga ggtgtctttg 1800
cttggtttgg tgggctgct gccacttaaa acctccgat ctctttttga gtcctttttt 1860
taaacaagtg ttacttgtgc cgggaaaatt ttgctgtcct tgtaatttta aaactttaaa 1920
ataaattgga aaagggaraa aaaaaaagna aanaaaaaaa aaaaaaaaaa aaaaaaaaaa 1979

<210> 225

<211> 541

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (506)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (511)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (532)

<223> n equals a,t,g, or c

<400> 225

tcgacccacg cgtccgcccc cgcgtccggg aaacaggaga tcgtggatcc tccttcaaaa 60
atggaggatg gaaagcccgt ttggcgcca caccctacag atggatttca gatgggcaat 120
attgtggata ttggccccga cagcttaaca attgaaccct tgaatcagaa aggcaagaca 180
tttttggtc tcataaacca agtgtttcct gcagaagagg acagtaaaaa agatgtggaa 240
gataactgtt cactaatgta tttaaatgaa gccacactgc tccataatat caaagttcga 300

tatagtaaag acagaattta tacatatgtc gccaacattc tgwtgacagt gaatccatac 360
tttgacatac ctaaaatata tcttcagagc ataaagtcac atcaaggaaa atctcttggg 420
acaagaccac ctccaggtct ttgcaattgc tgataagcct ttcgggacct ggaagggtgcc 480
ccaagatgag tcagtctaac catggnatcc nggagaatcc aggggccggg gnaaaccagg 540
a 541

<210> 226
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<400> 226
tcgaccacg cgtccgtgaa taagcaatct ggcctttgag ggggctgttg cggtagacagac 60
aattctgttg agcggcttcg gcggctccga ggagaagcaa tatgttaagg atacctctaa 120
gaagggcctt agtangcctt tctaataagt cttocaaagg atgtgttcga acaactgccca 180
cagcagcaag caacttratt gaagtatttg ttgatgggtca rtctgtcatg gtggaaccrg 240
gaackacygt cctccaagct tgtgagaagg ttggcat 277

<210> 227
<211> 2069
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2026)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2042)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2050)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2061)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2062)

<223> n equals a,t,g, or c

<400> 227

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gggtcgaccc acgcgtccgg gcgacattag ctagcgctcg ctctactctc tctaacggga 60
aagcagcgga atacaagaga ctgaactgta tctgcctcta tttccaaaag actcacgttc 120
aactttcgct cacacaaagc cgggaaaatt ttattagtc tttttttaa aaaagttaat 180
ataaaattat agcaaaaaaa aaaaggaacc tgaactttag taacacagct ggaacaatcc 240
gcagcggcgg cggcagcggc gggagaagag gtttaattta gttgattttc tgtggttgtt 300
ggttggttcg tagtctcacg gtgatggaag ctgcacattt tttcgaagg accgagaagc 360
tgctggaggt ttggttctcc cggcagcagc ccgacgcaa ccaaggatct ggggatcttc 420
gcactatccc aagatctgag tgggacatac ttttgaagga tgtgcaatgt tcaatcataa 480
gtgtgacaaa aactgacaag caggaagctt atgtactcag tgagagtagc atgtttgtct 540
ccaagagacg tttcattttg aagacatgtg gtaccaccct cttgctgaaa gcaactgggtc 600
ccctgttgaa gcttgctagg gattacagtg ggtttgactc aattcaaagc ttcttttatt 660
ctcgtaaaga tttcatgaag ctttctcacc aagggtaccc acaccggaat ttccaggaag 720
aaatagagtt tcttaatgca attttcccaa atggagcagc atattgtatg ggacgtatga 780
attctgactg ttggtactta tatactctgg atttcccaga gagtcgggta atcagtcagc 840
cagatcaaac cttggaatt ctgatgagtg agcttgaccc agcagttatg gaccagttct 900
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taccaggttc tgtcattgat gccacaatgt tcaatccttg tgggtattcg atgaatggaa 1020
tgaaatcgga tggaacttat tggactattc acatcactcc agaaccagaa ttttcttatg 1080
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aagtcttcaa gccaggaaaa tttgtgacca ccttgtttgt taatcagagt tctaaatgtc 1200
gcacagtgtc tgcttcgccc cagaagattg aagggtttta gcgtcttgat tgccagagtg 1260
ctatgttcaa tgattacaat tttgttttta ccagttttgc taagaagcag caacaacagc 1320
agagttgatt aagaaaaatg aagaaaaaac gcaaaaagag aacacatgta gaagggtggtg 1380
gatgctttct agatgtcgat gctgggggca gtgctttcca taaccaccac tgtgtagttg 1440
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aggagttaga tatcttgcat gaatgctctc ttctgtgttt aggtattctc tgccactctt 1560
gctgtgaaat tgaagtgcac gtagaaaaaa ctttttacta tatgaaactt tacaacactt 1620
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ttcccacag acaaggcttt cgtcctcatt aggtgttggc ctcagcctaa ccctctagga 1740
ctgttctatt aaattgctgc cagaatttta catccagtta cctccacttt ctagaacata 1800
ttctttacta atgttattga aaccaatttc tacttcatac tgatgttttt ggaaacagca 1860
attaaagttt ttcttccatg agttgagtc ttaagaaaat gattccagtt actcattttg 1920
catatttgct attttaacat tattggaccc tgcatttata gtcctttgat ttcttcctc 1980
tccctggtgt ctcccccaag accccaaata aagcaatata ctgttnaaca aaaaaaaaaa 2040
anggggggcn gccctagggg nccaagct 2069
```

<210> 228

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

<400> 228

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ttccagtcag cggctgcagg gtcgggctcg cgccgtcctc tccccgcccg cgccgkattc 60
taatgtagga actggtgaga agaaggtgac tgaagcctgg atttctgagg atgaaaactc 120
acataggacg acgtcagaca gactcacggg gatggagctc ccctctcccg agtctgagga 180
agtccacgag cccagattag gggagctctt gggaaatcca gaaggtcaga gcctggggag 240
ttccccctct caggacaggg gctgcaacag gtgacagtga cccattngaa gatccagaca 300
ggagagacag ctcaagtgtg caccaagtca ggaagaaacc atattctgaa atcagacttc 360
ttctggcttc anagagagct ccttagaagg ggaagccat tccttgcgat atcctgtngg 420
gaaaccttca cgtttaattc ggacctaaat aaggcatcgg antttcgcat c 471
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<210> 229

<211> 1640

<212> DNA

<213> Homo sapiens

<400> 229

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tcgacccacg cgtccgatgg cgactttggt cgaactgccg gactcgggtc tgctcgagat 60
cttctcttac ctcccgggtc tgtmaccgct ggaagaggct ggtggacgac cgggtggctgt 120
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cgaagggtaca tggcatcccg gctccattcc ctgcggatgg gtggctacct gttctctggc 240
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<210> 230

<211> 1970

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1952)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1963)

<223> n equals a,t,g, or c

<400> 230

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atatattgaa cattattttt gttgttctat tataaagtg gtaagttacc agtttcaata 1920
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```

<210> 231

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 231

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gcgagactcc gtctcaaaac aaaacaaata aaaaaaacia acagtatttt ttaggaattc 60
attttatttt aaatttttga aggaggagtt acaaaaagac aaatactaca tatgattcca 120
cttgtcatat ctagagtcaa attcatggag acagaaagta gaaagggtgt taccagcggc 180
tggaaggag agaagtgtga gtttaatggg tatagaattt tagttttgta aggtgaaatg 240
agttctggag attggttgca cnaacagtgt gaataactc aacactactg aactgtanac 300
ttaaattgat 310
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<210> 232

<211> 2833

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2828)

<223> n equals a,t,g, or c

<400> 232

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tgtgtgtcgg gaaggaagtc agtgcctatt ctcacatgac ttggcaaaca gcaaaccgtc 180
caccatctgc aagtactacc agaagggcta ctgtgcctat ggaactcggg gcagatatga 240
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cgacccccag cccagccccg agatgaagcc gcattcctac ctggatgccca tcaggagtgg 540
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tattaaaaata acataattga gggaccatca gataactgta ttttgtcagg tgcaataaaa 2760
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aaaaaaaaanaa aaa

2833

<210> 233

<211> 692

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<400> 233

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atctccagac aagagctaca tttatggaag ttctgacaaa aatccttcaa caaggcacag 120
aatttgacac acttgacagaa acagtattgg ctgatcgggt tgagagattg gtggaactgg 180
tcacaatgat ggggtgatcaa ggagaactcc ctatagcgat ggctctggcc aatgtgggtc 240
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cagactctct tccgaggcaa cagcttggcc agtaaaataa tgacattctg tttcaaggta 420
tatggtgcta cctatctaca aaaactcctg grtcctttat tacgaattgt gatcacatcc 480
tctgattggc aacatgttag ctttgaagtg gatcctacca gkttagaacc atcagagagc 540
cttgaggaaa accagcggaa cctccttcag atgactgaaa agttcttcca tgccatcatc 600
agttcctcct cagaattccc ccctcaactt cgaagtgtgt gccactgttt ataccaggca 660
acttaccact ccctactgaa taaagctaca gt 692
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<210> 234

<211> 1353

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (649)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1020)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1255)

<223> n equals a,t,g, or c

<400> 234

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aagatggcgg actcgggtgg tagccgatga ggaggccggc gggggaaccc ggccccggg 120
ccccgagacc gactgaggga gcgacctgcg caggggcccg ggagtcattg tctccatcac 180
ccaactccat gcttcgagtc ctgctctctg ctcagacctc ccctgctcgg ctgtctggcc 240
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tgctgctgat ccctccagta cagccctgct gtttggggcc cagcaaatgg ggggaccggc 300
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ctgatgggtcc cctggtgtgt gccctggaac aggagcgaag gctcgcctnc cctccgaagc 660
cacctcccc tttgcagccc cttctccgag gtgggcaagg gttggaagct gctctaagct 720
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aggcagcaag ttgccatttt cccagctttc atc 1353
```

<210> 235

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<400> 235

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ggctgtttgg gagacttatg gtcaccctga agtactgcct gcctctagtg tcgcgtccct 120
ccagtatccg atgggagcgc cgtccgcagg naatgtgtct ctctgatcat ggtgcctcgt 180
gtccagctct ggggaagacc gagacgaaat cgagtcagct ggcgttggga gagggttat 240
ttccgcttcc gcttgcccac tttcaggaat ttgattctga gagcagggct gcggttccag 300
gcaggggttg tacacatatt tgcgttggaa ggaaaaaaag aaccta 346
```

<210> 236

<211> 2271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<400> 236

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acagtgatgg aaagactcac ctggacaaac cctactgtgc ccccagaaa gaatgcttcg 120
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gggggattgt gggagccaaa agtccctacg ttgatgacat gggagcaata ggtgatgagg 180
tgatcacatt aaacatgatt aaaagcggcc ctgtgggtcc tgtggctgga gggatcatgg 240
gatgcatcat ggtcttggtc ctggcgggtg atgcctaccg ccaccagatt catcgccgga 300
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<210> 237

<211> 3050

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3024)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3031)

<223> n equals a,t,g, or c

<400> 237

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aaattgaaac tgaacatggg accatgccat ccttctagca taatggwgaa gtctgamctg 60
aggrgtatct ttgatgaaag acatttagga ccctagaaac taaatcttgt caccaagact 120
ttatagtaaa gtagtagcaa aattatTTTT aaaagacttt cttcctttta ctaccattt 180
cctctcttgg gaaagctgat gagcaaatta tccaagactc atttctttat taggcaaagt 240
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<210> 238

<211> 2802

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<213> Homo sapiens

<220>

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<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1800)

<223> n equals a,t,g, or c

<400> 238

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<211> 1537

<212> DNA

<213> Homo sapiens

<400> 239

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<210> 240

<211> 1334

<212> DNA

<213> Homo sapiens

<400> 240

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<210> 241

<211> 2438

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (879)

<223> n equals a,t,g, or c

<400> 241

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cccatcacac agactaaagc cacctcttgc aaaccacata cccaaaacaa agaatgccag 180
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<210> 242

<211> 139

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<400> 242

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tagggactag ggcgcgncg 139

<210> 243

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

<400> 243

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<210> 244

<211> 584

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (582)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<400> 244

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<210> 245
<211> 332
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

<400> 245
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aactcagccc tgccactccc tgctctgaag ct 332

<210> 246
<211> 1617
<212> DNA
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<222> (215)
<223> n equals a,t,g, or c

<400> 246
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cagctattcc gcattctttt caggaccctg aaccatcaat atgactacac atttgattgg 1380
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rccaagaacc aagtgcgtt acagggaaaa aattgaatmc aaaattgggt aattcatttc 1560
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<210> 247

<211> 1449

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1447)

<223> n equals a,t,g, or c

<400> 247

cgcggggctg gtagcgccg gagccgtgcg akttctctac cctgcttcgc gagcgggcga 60
gagaacgcga gtcccaggat ccccgccacc casttctctt ccaactgcatt cccccggcgc 120
gtgtgggacc gaggtggaca tggatccgca gaggtccccc ctattggaag taaaggggaa 180
catagaactg aagagacctc tgattaaggc cccttcccag ctgcctctct caggaagcag 240
actcaagagg aggcctgacc agatggaaga tggcctggag cctgagaaga aacggacaag 300
aggcctgggt gcaasgacca aaattaccac atcccacca agagttccat cctcactac 360
agtgccacag acacaaggcc agaccacagc tcaaaaagtt tccaagaaga caggaccccg 420
gtgttcaca gctattgcca cagggttgaa gaaccagaag ccagttcctg ctgttcctgt 480
ccagaagtct ggcacatcag gtgttcctcc catggcagga gggaagaaac ccagcaaacg 540
tccagcctgg gacttaaagg gtcagttatg tgacctaaat gcagaactaa aacggtgccg 600
tgagaggact caaacgttgg accaagagaa ccagcagctt caggaccagc tcagagatgc 660
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tgaccgggta ttcccaccag gaagtggaca ggatgaagtg tttgaagaga ttgccatgct 1320
tgtccagtca gccctggatg gctatccakt atgcatcttt gcctatggcc agacargcag 1380
tggcaagacc ttcacaatgg aggggtgggt gggggagacc ccarttggaa gggctgatcc 1440

ctcgggncc

1449

<210> 248

<211> 1484

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1477)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1478)

<223> n equals a,t,g, or c

<400> 248

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ccacgcgtcc gcgagcgtcg gacggacgcg tgggtcnggt taggaggagc taggctgcc 60
tcgggccggt gcagatacgg ggttgctctt ttgctcataa gaggggcttc gctggcagtc 120
tgaacggcaa gcttgagcaa cgcggtaaaa atattgcttc ggtgggtgac gcggtacagc 180
tgcccaaggc cgcttcgtaac gggaatgccg aagcgtggga aaaaggagc ggtggcgaa 240
gacggggatg agctcaggac agagccagag gccaaaga gtaagacggc cgcaaagaaa 300
aatgacaaaag aggcagcagg agaggcccca gccctgtatg aggaccccc agatcagaaa 360
acctcaccca gtggcaaacc tgccacactc aagatctgct ctgggaatgt ggatgggctt 420
cgagcctgga ttaagaagaa aggattagat tgggtaaagg aagaagcccc agatatactg 480
tgcttcaag agaccaaag ttcagagaac aaactaccag ctgaacttca ggagctgcct 540
ggactctctc atcaatactg gtcagctcct tcggacaagg aagggtacag tggcgtgggc 600
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caggaaggcc ggggtgattgt ggctgaattt gactcgtttg tgctggtaac agcatatgta 720
cctaatacag gccgaggtct ggtacgactg gactaccggc agcgtggga tgaagccttt 780
cgcaagtccc tgaagggcct ggcttcccga aagccccttg tgctgtgtgg agacctcaat 840
gtggcacatg aagaaattga ccttcgcaac cccaagggga acaaaaagaa tgctggcttc 900
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cctcaactac cattccttct ttaaactcctc ttcagagaaa tctgcattct atttctcatg 1260
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ttttatttga gggttttttg ttttttaaaa aaaaattgaa caaagactac taatgacttt 1380
gtttgaatta tccacatgaa aataaagagc catagtttca aaaaaaaaaa aaaaaaaaaa 1440
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaannng gggg 1484
```

<210> 249

<211> 2422

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2408)

<223> n equals a,t,g, or c

<400> 249

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ggtcttgaat aaactactat accaggagggc acattttctc gctcaagcat cttacattga 60
ccttcttttaa aacaaaaata cgtacaaggc ccacgcgtcc gcggacgcgt ggggagtctt 120
tctaattcttc cttttctaca gacctatctg acctctccct tcttccccag gctgctcctt 180
gccaggccga gctaggtccc aattcttctt cagcctctgc tcttccaccc tataatcttt 240
ttatcacctc cctcctcac acctgstccg gcttacagtt tcttccgtg actagccctc 300
cccsacctgc ccagcaattt actcttaaaa aggtggctgg agctaaaggc atagtcaagg 360
ttaatgctcc tttttcttta tccaaatca gatagcgttt aggctctttt tcatcaaata 420
taaaaaycca gccagttca tgrctygttt ggagcaacc ctgagacact ttacagccct 480
agaccctaaa aggtcaaaag gccrtcttat tctcaawata cattttatta cccaatctgc 540
tcccgacatt aaataaaact ccaaaaatta rawtcyggcc ctcaaaccac acaacaggay 600
ttaattaacc tcrcttcaa ggtgtacaat aatagaaaaa agttgcaatt ccttgccctc 660
actgtgagac aaacccagc cacatctcca gcacacaaga acrtccaaac gcctgaacyg 720
cagcrgccag gcgttctctc agaactctct cccacaggag cttgctacac gtgccggaaa 780
tctggccact gggccaagga atgcccgcag ccyyggattc ctctaagcc rcgtcccatc 840
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cctggaacwc tggccmaagg ctctctgact gactccttcc cagatcttct tggcttagca 960
gctgaagact gacactgccc gatcrctcr gaagcmccct tgaccatcac ggatgccgag 1020
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caatactctt ttaagcactc ctttttagtt atccccatct gccagttcc cttattaggc 1260
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attgccacc tttctcccaa tccaaagcct cctttgygtc ctctcttgt atacccccac 1380
cttaaccac aagtataaga tatctctact cctccttga cgaccgatca tgcaccctt 1440
accatctcat taaaacctaa tcacccttac cgcactcaat gccagtatcc cattccgcag 1500
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aagttagttc aggatctgcy ccttatcaac caaattgttt tgcctatcca ccccggtgtg 1680
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ttcacttaga ctgaccctga caccattag gctcaacaaa ttacctgggc tgcactgcca 1860
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ccggtttaca ctgtttctcc aagacatcac agctgatatc tctggtgtct atccccaaac 2040
tgccactcta aactcttgaa gtaaataaat aatctttgct ggcaggactc tgctgaatct 2100
ccttaggcac tctctaata gatrtctag gtccctccaa ttcttagacc ttttatacct 2160
gtttttctcc ttctgttatt ccatttagtt tctcaattca tccaaaaccg tatccaggcc 2220
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atcaccaatc attctatayg acaaattgttt cttctwacat ccccacaata tcacccctta 2280
ccacaagacc tcccttcagc ttaattctctc ccactctagg ttcccasgct gcccctaato 2340
ccgcttgaag cagncccgag aaacatcggc cattctctct ccataccaac ccccaaaatt 2400
ttggcggncc aaaacttaaa ac 2422

<210> 250

<211> 574

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (558)

<223> n equals a,t,g, or c

<400> 250

ttttatgnca aaaaacgcaa cccacgcatg aaaaatgngc caantctttc cttggaatgg 60
tctgtatttg ggtgaantcc atccagacgt caattaacac ttcttttatt ttgggggttg 120
ccaactcgtt tccccaggat ttaaagacta taacgatgat aaaagtcagt ttcgcaccct 180
gtcaaaggct tggcccgttg ccttttcctt cccggcaata ctcggttcaa ttaggtcttg 240
tcccctcatt atctgtgagg actgaattcc acccccgtt ttcaacgcag gctctttgct 300
cgggaaaagt caaacatct ctcaaaggat caaagagctc agccatagac agagccgccg 360
gaggaaaagc gagtcgctgc atcagatgaa agggggccct cagcctcact cctcaccgca 420
gctcctggga tcttaaagac agggtcagga ggatcaggag ggacaagagg gatggaggcg 480
aaaggctgga tccttaatcc aggccggaga caaagccgcg ccaggaggct cgcggcgcg 540
ggccctgtc ctccggcncg agatgaatcc tgcg 574

<210> 251

<211> 1044

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (1010)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1011)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1012)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1013)
<223> n equals a,t,g, or c

<400> 251
ggcgggctgg ctcagtaaag cggaggcagc gggggaagat ggcggcggcc gttccacagc 60
gggcgtggac cgtggagcag ctgcgcagtg agcagctgcc caagaaggac attatcaagt 120
ttctgcagga acacgggttca gattcgtttc ttgcagaaca taaattatta ggaaacatta 180
aaaatgtggc caagacagct aacaaggacc acttggttac agcctataac catctttttg 240
aaactaagcg ttttaagggt actgaaagta taagtaaagt gtctgagcaa gtaaaaaatg 300
tgaagcttaa tgaagataaa cccaaagaaa ccaagtctga agagaccctg gatgagggtc 360
caccaaaata tactaaatct gttctgaaaa agggagataa aaccaacttt cccaaaaagg 420
gagatgttgt tcaactgctgg tatacaggaa cactacaaga tgggactgtt tttgatacta 480
atattcaaac aagtgcacaa aagaagaaaa atgccaaaggc tttaagtttt aaggtcggag 540
taggcaaatg tatcagagga tgggatgaag ctctcttgac tatgagtaaa ggagaaaagg 600
ctcgactgga gattgaacca gaatgggctt acggaaaagaa aggacagcct gatgccaaaa 660
ttccaccaa tgcaaaaact acttttgaag tggaattagt ggatattgat tgaaatagca 720
gtgcttcagc tctaaggata ttagcaacaa tgataaaaact tggccttgaa gaaatttaca 780
caactagtta gaacttggtta ctattgtaaa ggaagagtca actggaaaat tcaaggagtt 840
aataaaaattt gtttacttgg tcccagcttt tgagagataa atcccttatg aatccctggt 900
ctaaaatact ttcttacagc tgtgtaaaat actggtcaag gagaactttt tccttttacc 960
tcatgttgta aacttaagtg gctcaataaa aattgatcca ctgtcttgan nnnaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaa 1044

<210> 252
<211> 1029
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (835)
<223> n equals a,t,g, or c

<400> 252

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ggcacgagcg gccactgcct gccgcgwgcg gagccggagc ccgagcctga gtggcgccgg 60
gcccgcagtg gggctcctgg gccgcggcg cggcgggcg atgctccaga ggctgacca 120
gccatggagg ccgaggcagg cggcctggag gagctgacgg acgaggagat ggcggcgcta 180
ggcaaggaag agctagtgcg gcgcctgcgg cgggaggagg cggcgcgctt ggcggcactg 240
gtgcagcgcg gccgcctcat gcaggaggtg aatcggcagc tgcagggccca cctgggcgag 300
atccgcgagc tcaagcagct caaccggcgt ctgcaggcag agaaccgtga gctgcgcgac 360
ctctgtgtgt tcctggactc ggagcgccag cggggggcg gcgccgcacg ccagtggcag 420
ctcttcggga cccaagcatt ccggggccgtg cgcgaggacc tggcgggctg ttggcagaag 480
ctggccgagc tggaggggcg ccaggaggag ctgctgcggg agaaccctagc gcttaaggag 540
ctctgcctgg cgctgggcca agaattgggc ccccgcgcg gccccagcgg cgcgggggga 600
tcaggagccg ggccagcacc cgagcttgcc ttgccccgt gcgggccccg cgacctaggc 660
gatggaagct ccagcactgg cagcgtgggc agtcgggac agttggccct ggcctgttcc 720
cccgatgatt gaaggcactg ctctctccac gccgacgccc gcccggttg ctccccgagc 780
cccgggaccg ctgtggacct cgggacctgg acgcccctct gctgcgcagg agggncctgt 840
ggcatggact aagaaatcct gacaccaaga agggccccct cctcttgctg gcagggcagc 900
agggggactg aaggctggag cggagggact tgctgggggt tggattgggg gtaataaacc 960
cggacggaag cggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggcgc gccgctcgcg 1020
atctagaac 1029
```

<210> 253

<211> 475

<212> DNA

<213> Homo sapiens

<400> 253

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ggcacagcca ggtgctcctg acggacttaa gtgccaaaaa ctgactccat gctaggaacc 60
actgagtctt caaccagtga gtttatgatt cctattttta aaataacctt taaagtctga 120
ttataaaagt agtacatagt ctttgtggaa aattttattaa gtacagtaag tgcagaagaa 180
gaaataaatc actcataatc ccagcagaca gaattaatca ctgtcatttt aggtgtattt 240
ttttgcagag taaaacatgt aaacatttta catagacata aatacaaaca tgataagcat 300
tgacatgga aatgggagc taaattctgt acatgtgcct tcttgatttt ttgttgattt 360
tttawatcat gcytttttgc aaaatacatt ataaattaaa catggaattt cactagtatt 420
ctgtggtatt cattttccat gggctggaat aatggtcccg tccactatat ggggt 475
```

<210> 254

<211> 1724

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<400> 254

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ggcacagtac agcaagaggg caaggacaat tgcttaagtt gacctctggg tccggaatcg 60
cgggcaaaga tggcgggcg cagggtgttg aggcctttgc tacgcgggtc gaggtttca 120
ttgcacaccg cggctaattg cggcgccacg gctacagaaa cgacctgcca agacgtcgcg 180
gcgacccccg tcgcgcggtg cccgcggatt gtggcctcca tgacagccga cagcaaagct 240
gcacggctgc ggcggatcga gcgctggcag gcgacggtgc acgctgcgga gtcggtagac 300
```

```
gagaagctgc gaatcctcac caagatgcag tttatgaagt acatgggttta cccgcagacc 360
ttcgcgctga atgccgaccg ctggtaccag tacttcacca agaccgtgtt cctgtcgggt 420
ctgccgccgc ccccgagcgan cccgagcccc agccccgaacc cgaacctgaa cctgcgctgg 480
acctcgcggc gctgcgtgcg gtcgcctgcg actgcctgct gcaggagcac ttctacctgc 540
ggcgcarcgg cgcgtgcacc gttacgagga gagcgaggtc atatctttgc ccttcctgga 600
tcagctgggtg tcaaccctcg tgggcctcct cagcccacac aacccggccc tggccgctgc 660
cgccctcgat tatagatgcc cagttcattt ttactgggtg cgtggtgaag aaattattcc 720
tcgtggtcat cgaagagggtc gaattgatga cttgcgatac cagatagatg ataaaccaa 780
caaccagatt cgaatatcca agcaactcgc agagtttgtg ccattggatt attctgttcc 840
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tgaaaaccac atatttggtg gctcaaaaac tgcagatcct tgctgttacg gtcacacca 960
gtttcatctg ttacctgaca aattaagaag ggaaaggctt ttgagacaaa actgtgctga 1020
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acaagctatg tatcaaggat tctggagtga agcagatgtt actcgacctt ttgtctcca 1140
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actgactaca caagctgatc aaaataaccc tcgtaaaaat atatgttggg gtacacaaa 1260
taagcctctt tatgaaacaa ttgaggataa tgatgtgaaa ggttttaatg atgatgttct 1320
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aaactgaaaa agcatatttg attgagaact gtgggaatat ttaaatttta ctgaaggaa 1440
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atttttagtta ctttttggtg atttaaaaat aattgcattt gtatattgct aactgataag 1620
acaaattgag ttattgagct attaaatgca cattttaata taaatgcaga aatcccaa 1680
aaaatgctaa catactgaat tcagtaatta aaagaaccca ctgc 1724
```

<210> 255

<211> 306

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (195)

<223> n equals a,t,g, or c

<400> 255

```
ggcagagcgg ctcctcagct ccaggacctt gctagcagct gccctcagga agaagtttct 60
cagcagcagg aaagcgtctc camtctccct gccagcgtgc atccccagct gtscacggm 120
agagcctgga gaccagtac ctgcagcaca gactccagra gccagcctt ctgtcaaagg 180
cccagaacac ctgtnagcat ctgctgcaga atcaagcgac tctttcttca gaagcagtct 240
caactgcagg cctattttta tcagatgcag atagcagaga gtcctacctt acagccaagt 300
cagcag 306
```

<210> 256

<211> 890

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (881)

<223> n equals a,t,g, or c

<400> 256

```
ggcacgagggc ccggccgccc cctgccctct ccgctggcca cctgctgccg cccgcgccat 60
ggctggcaaa gcacacaggc tgagcgctga ggagaggac cagctgctgc caaacctgag 120
ggctgtgggg tggaatgagc tggaaggccg tgatgccatc ttcaagcagt ttcatttcaa 180
agacttcaac agggcctttg ggttcatgac aagagtggcc ctgcaggctg agaaactgga 240
ccaccatcct gaatggttta acgtgtacaa caaggtccac atcacgctga gcacccatga 300
gtgtgccggc ctttcagaac gggacataaa cctggccagc ttcatcgaac aagtagcagt 360
gtccatgaca tagaccctgc ctttcctctt tgaattcttc cgggggaaag ggtgactgaa 420
ctgggagtc ccaggaggag ctgaggagcc cttaccctcc caccactccc ctcccaagac 480
ccagccgccg ccgttgaggg ctgagtcctt gctgtgggat gtgccagtgt ccccaaccaac 540
accaggaatt tagacctttt ccctgcacca ctctcttcat cctgggggct ctgttacact 600
aatttgaata aactctcccc tttctttgca acttcccagc aacaataatg attttcttgc 660
caggccgtct cttgctccct aattcatttc ccaggaagct gtgatacagg gtgaaataaa 720
gtcttgtctt agaaaccagg accctaaacc ccacactatg taatagaaac acatgtgttt 780
ttatgtctca aataaaacta ttatatcact tggaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa anaaaaaaaa aaaaagaaat naaaaaaaaa 890
```

<210> 257

<211> 1159

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<400> 257

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ggcacgagggc ggaggggaaga gcgggcgggc gggaggcgcc ggcgccagac gcggagggaa 60
ggagctacga gtagccgccg agangccgcg garccagcga cgaccgaccc agccgagccg 120
ccgccgccgc cgcgccccca tggcgccgc caaggacact catgaggacc atgatacttc 180
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gggcggaacgc gtgggtcga 1159
```

<210> 258

<211> 755

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (755)

<223> n equals a,t,g, or c

<400> 258

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attttctgtg gtttggtctc cacattgcaa tgttcaatgc cacgtgctgc tgacaccgac 180
cggagtacta gccagcacia aaggcagggg agcctgaatt gctttctgct ctttacattt 240
cttttaaaat aagcatttag tgctcagtc cttactgagta ctctttctct cccctcctct 300
gaatttaatt ctttcaactt gcaatttgca aggattacac atttcactgt gatgtatatt 360
gtgttgcaaa aaaaaaaaaa gtgtctttgt ttaaaattac ttggtttggt aatccatctt 420
gctttttccc cattggaact agtcattaac ccatctctga actggtagaa aaacatctga 480
agagctagtc tatcagcatc tgacaggtga attggatggt tctcagaacc atttcaccca 540
gacagcctgt ttctatcctg tttaataaat tagtttgggt tctctacatg cataacaaac 600
cctgtcccaa tctgtcacat aaaagtctgt gacttgaagt ttagtcagca ccccccacaa 660
actttatttt tctatgtgtt ttttgcaaca tatgagtgtt ttgaaaataa agtaccatg 720
tctttattag aaaaaaaaaa aaaaaaaaaa aaaaan 755
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<210> 259

<211> 714

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (665)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<400> 259

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catctcctcc tgaactctga gaagatgtca aaatccacag gcaacttcct cactttgacc 180
caagctattg acaaattttc agcagatgga atgcgttttg ctctggctga tgctggtgac 240
actgtagaag atgccaactt tgtggaagcc atggcagatg caggtattct ccgtctgtac 300
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acctgggtag agtgggtgaa agaaatgggt gccaaactggg acagcctaag aagtggtcct 360
gccagcactt tcaatgatag agtttttgcc agtgaattga atgcaggaat tataaaaaaca 420
gatcaaaact atgaaaagat gatgtttaaa gaagctttga aaacagggtt ttttgagttt 480
caggccgcaa aagataagta ccgtgaattg gctgtggaag ggatgcacag agaacttgtg 540
ttccggttta ttgaagttca gacacttctc ctcgctccat tctgtccaca tttgtgtgag 600
gcacatctgg gacactcctg gggaaagcct gacttcaatt atggaatgst ttcattgggcc 660
tgtgngmagg gtcctgttta atggaagttt ttaattacac tccntcacag tatc 714

<210> 260

<211> 525

<212> DNA

<213> Homo sapiens

<400> 260

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ccgggcaaaa gagttttgct gctaattgga ttcaagcgca tccagaaagt agtactggat 180
ctgatccccg aactactgct gaatcacaga ccactgggaa gcaaagtta atccctagaa 240
ctcctaaagc tagaaagagg aagagcagaa ctacaggctc actaccaaag gggactgaac 300
catctacgga tggagagacc tctgaggcag agtcaaatta ttctgtgtct gagcaccatg 360
ataccatttt aagggttaact aggagaaggc agatcttaat tgcattgctc ccagtgtcca 420
gtgttaggaa aaagccgaaa gtaactccaa caaaggagtc ttacttgaa gaaatagtgt 480
ctgaagcaga atctcatgtt tcagggtattt ctaggaattg tgctt 525

<210> 261

<211> 3000

<212> DNA

<213> Homo sapiens

<400> 261

gaattctcgg gtcgaccac gcgtccgacc cagtggtccg gcttccccgg tgtcccccca 60
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tcgcgaggcc gcagcctgag gagattccca acctgctgag catccgcaca cccactcagg 180
agttggggcc cagctcccag ttactttggt ttcccttggt cagcctgggg ctctgcccag 240
gccaccacag gcaggggtcg acatggcaga gacactggag ttcaacgacg tctatcagga 300
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<210> 262

<211> 966

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (935)

<223> n equals a,t,g, or c

<400> 262

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tccagtatct tatgacaaca cagtaaatta taccactccc aaatgcaaaa gctgaaacta 180
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gagctgcaaa ctctttatat aaaggtcca actctgcagc cctaattatt ctagttggcc 300
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gtgtgtgtgt ttgctttaag gaagctgttt tggtaataaa aagtcactgr aggtcataaa 420
ttcatgttaa cacatccagt gtacatgaag taggcaccga gttaaactat ttgtctacta 480
tatagcatgt catcttaaaa gccttatatt ttctcctaaa tattaacttt attttctctc 540
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caagatatgc ttctttccaa ttggacttct aaatttctag caattctaac agtgcataaa 660
agaggcaacc ccaaaagtgt agcagggtact gaataacaga tttgcagcct tgggtatcca 720
cattaaaatt tgaaatctaa gtgaattact tcaagctgat ttcttaggtc aaggagagat 780
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catgtgwaca gctcctacag ctactaacct gcttctgccc tcacgggtag cgtgcacaat 900
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<210> 263

<211> 2738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (762)

<223> n equals a,t,g, or c

<400> 263

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ttgacaatat ttggtgcagt gacatacttt actatcaaat ggatggtaga tgcaattgat 180
ccaaccagaa agcaaaaagt agaagctcag aaacaggcag aaaaactaat gaagcaaat 240
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ctgcagcctc caaaagggtgt tcttctctat gggcctccag gctgtggtaa aacgttgatt 480
gccaaggcca cagccaaaga agcagggtgt cgatttatta accttcagcc ttcgacactg 540
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cagccatgtg ctcaacactg atttcacctc ttgagtataa acttttttaa tttaaattgg 1920

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<210> 264

<211> 1520

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<400> 264

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ttccagtgtc ctctgggtgt ttccaagagc aacaagaaac gaataaatct ctgacccttc 180
tcagggtgcag ccagagagac actagcccac tgatggaygg acagacgtgg gcagggtccg 240
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<210> 265

<211> 1568

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1482)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1502)

<223> n equals a,t,g, or c

<400> 265

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cccccaattg gggaacagga ggaggactng ggcccgaatt tngggcaagg gaggggggtt 1500
tntttggcac aaggccccg gggggaacca gttttttgt tcggtttccc tttgggacaa 1560
agtgggga 1568
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<210> 266

<211> 545

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (540)

<223> n equals a,t,g, or c

<400> 266

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agtaagtcgc tgattttggt tcttttttcc aaacagtttt gatttgaagt tccttttaaag 60
gctgttggag cttttgcaaa taccagcta atgaaaggca cttaagattg ggcccatctg 120
catcatcaca ttgaagtttt ctgtctaaag gaaggttcca gctacctgtt acccttttgc 180
taaacacagt tgcaagtgtg cagtgtattt catgacaaaa gtgcaactta gttttctgtg 240
aatgatttat tttctctgaa atgattcttg gtcattgtga gtttctaaat gttaaagaga 300
```

acatagtgt tttgacctgt gggaaatctc atcttgnta ccatggtgt gcacagacca 360
tcaggaagaa ctgaaaagtt caggcaactt gagnaata aagtcaccac cmgcaaggat 420
gctgtctaaa ataaccggra gattattamc ccagcacgtg gragartgtg ctagtgggta 480
gatgttwtgg aargctacta ggggtccncc cttaggtgcc tgtgctagtc ctaagggggn 540
ggtgg 545

<210> 267

<211> 762

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (712)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (740)

<223> n equals a,t,g, or c

<400> 267

aattcggcac agggaatggc ggggtctcct gagttggtgg tccttgacct tccatgggac 60
aaggagctcg cggctggcac agagagccag gccttggtct ccgccactcc ccgagaagac 120
tttcgggtgc gctgcactgc gaagcgggct gtgaccgaaa tgctacaact gtgcggccgc 180
ttcgtgcaaa agctcgggga cgctctgccg gaggagattc gggagccgc tctgcgagat 240
gcgcaagtga cttttgaatc agctgtgcaa gagaatatca gcattaatgg gcaagcatgg 300
caggaaagctt cagataattg ttttatggat tctgacatca aagtacttga agatcagttt 360
gatgaaatca tagtagatat agccacaaaa cgtaagcagt atcccagaaa gatcctggaa 420
tgtgtcatca aaaccataaa agcaaaaaca gaaattctga agcagtagca ccctgttgta 480
catccactgg acctaaaata tgaccctgat ccagtccttg cctgcattaa ttgaacaagg 540
agagggattt tcccaagttc tcaggatgca acctggtatc caccttcaga ggattcacca 600
agaagtcttt ttcagttgtc ataaggaaac cagatgctwa acctgagact ttatwacaca 660
gattgaaacc acaccaacag aaactggttt caggaaaaac cttttacgtg gnacttgaaa 720
aagaaagcaa acttaaaan ttggccccc aaagaaaaat gg 762

<210> 268

<211> 1433

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (893)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (947)

<223> n equals a,t,g, or c

<400> 268

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gcgaggcct ccgtagtgat ctggccttta ctttctcccc gagtcacggg aagccctcgt 60
tgacctcaca ggggtggacac ccggaggcga gatcccggtc cgcgagcag agccctttct 120
catggaacag gacgtgtcgg ggccgctgct ggggaaagca gccggggccc cagatgctgg 180
agcgggagca gggcccgggc ccccgagac cctccgaggc accgcccgt cttgtgcctt 240
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ctgcagcagc gtctcctgag agagaaggag gccaaagatca ggaaggcctt ggacaggcct 360
cgcaagaaga ggcacctgct ccggcggcag cggacgaggc gggagttccc cgtgatctcc 420
gtggtggggg acaccaactg cggaaagacc acgctgatca aggcactgac gggcgatgcc 480
gccatccagc cacgggacca gctgtttgcc acgctggacg tcacggccca cgcgggcacg 540
ctgccctcac gcatgaccgt cctgtacgtg gacaccatcg gcttcctctc ccagctgccg 600
cacggcctca tcgagtcctt ctccgccacc ctggaagacg tggcccactc ggatctcatc 660
ttgcacgtga gggacgtcag ccaccccgag gcggagctcc agaaatgcag cgttctgtcc 720
acgctgcgtg gcctgcagct gcccgcctcg ctctggact ccatggtgga ggttcacaac 780
aaggtggacc tcgtgcccgg gtacagcccc acggaaccga acgtcgtgcc cgtgtctgcc 840
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cgcccacaga ggcctgcggg gtgggggcat cgctgcctgg ggagctgagg cgttaccgct 1140
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tctcgctccc agccatttgc tgggatgacc gtgcaggccg gtgacacggc cgcacctgcc 1260
ccaaagcggg ccgcccagc gtccactcca agcctgagca tccacacaat tccagtgggc 1320
cctcggtgcc tgctgtgaac tgctttccct cggaatgttt ccgtaacagg acattaaacc 1380
tttgwtttta cttccgtgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggg 1433
```

<210> 269

<211> 2278

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2277)

<223> n equals a,t,g, or c

<400> 269

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cacagtatgg aaatacgggg aagcaggaga tagatccgga aaaataaagt tgagaccaga 60
ctgtagactg tcttgaatgc caagctaaag tgtttatact ttattcagta aataaacaaa 120
actggtagcg caagaaaagg agtgagcaag tggtacaac ttaaagacaa ttcattttgc 180
tcccacgtgt tatatcatga atttnttggg cccaaagtca tatatagaat tttttaaata 240
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attgatactt gattaaagaa agcacaaaga cataaaaaata aaacattctt ggtgggggga 300
aatgggtttt aagaggcatt ttattaattt taccncaggt atatttgccc tgtgttttac 360
aaacaaaaar gaggtatgtg gggtacatgt atgaaacact ggatcagaag gaccagtat 420
ttgatgcaaa aggaatagaa acagtcagaa gagattcctg ccctgctgtt tctaagatac 480
ttgagcgttc tctaaagctg ctatttgaaa cgagagatat aagtctaatt aaacagtatg 540
ttcagcgaca atgtatgaag cttctggaag gaaaggccag catacaagac tttatctttg 600
ccaaggaata cagaggaagt ttttcttata aaccaggagc ttgtgtgcca gcccttgaac 660
ttacaaggaa aatgctgact tatgaccggc gctctgagcc tcagggtggg gagcgagtgc 720
catagctcat cttttatggg acccccgag taccacttat ccagcttgta aggcgcccag 780
tggaagtcc tgcaggacca actctgagac tgaatgctac ttactatatt accaagcaaa 840
tccttccacc cttggcaaga atcttctcac ttattggtat tgatgtcttc agctggtatc 900
atgaattacc aaggatccat aaagctacca gtcctcgcg aagtgaacct gaaggcgga 960
aaggcactat ttcacaatat ttactacct taccctgtcc tgtgtgtgat gacctaaactc 1020
agcatggcat ctgtagttaa tgcggagcc aacctcagca trttgcagtc atcctcaacc 1080
aagaaatccg sgagttggaa cgtcaacagg agcaactgt aaagatatgc aagaactgta 1140
caggttgctt tgatcgacac atcccatgtg tttctctgaa ctgcccagta cttttcaaac 1200
tctcccgagt aaatagagaa ttgtccaagg caccatatct ccggcagtta ttagaccagt 1260
tttaaattgt caatatcaca gtattacagg tgctattttt ttcagtgtt accactaaac 1320
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caggtgttg atttgtctca gtatgtgtac catcttgtaa attcatttga gtagatcatg 1560
tttacttccc agtggaagga gcaactgaaa cctcttaaag aaaaagcatt tgtgtgtttt 1620
ccttgaactg tctgtatcaa gacgtgttac ttcgagatat ccattcactt tataattttr 1680
actgcaaaat attttgtaaa tacacttttt tacttttcaa acgagtaaaa taatgtgcaa 1740
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tcaaagtaga tcgttatttt gatcaaactg tgcaaacagt agtaccacgt gtagcatttt 1860
gaaacattat tttttaaaaa atgctgtctt gctttagcta ttaatggggc attgtgagga 1920
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aaattttatt ccatttgctt gttttgtata gacatttcta ttgcttctaa atatacttaa 2040
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aatgtgtatt tagaatatt gtataactgt gtaaaataaa aaaggaatta tgtggtcagt 2160
gcattgtttt ttaaactgga aatcattttg ttttaaaagt taataatgga aaccatatta 2220
aaattgaata aaatataaaa taatataaaa aaaaaaaaaa aaaaaaaaaa aaaattnc 2278

<210> 270

<211> 2533

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2514)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2531)

<223> n equals a,t,g, or c

<400> 270

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cggaatagga gcgttgcgag acggtcgggt ccaagtgggc ctgggcgcgg gggagaggcg 60
ggtctgtcct cgggaactgc aaggccctgt gagcgggagg actgggatcc cggccgcggc 120
tgctggaagc gtcgaagctc agcggggccg cggacactga cctgtgctta gaactcatcc 180
tggcccgcag agcctgccgc gagtccctgg cgtccctgt ggcgggctct tggagccact 240
ttcccagagc gaagtcagcc cgcggctcgg actccggcgg gacctgctcg gaggaatggc 300
gccgccgggt tcaagcactg tcttcctgtt ggccctgaca atcatagcca gcacctgggc 360
tctgacgccc actcactacc tcaccaagca tgacgtggag agactaaaag cctcgctgga 420
tcgccctttc acaaatttgg aatctgcctt ctactccatc gtgggactca gcagccttgg 480
tgctcaggtg ccagatgcaa agaaagcatg tacctacatc agatctaacc ttgatcccag 540
caatgtggat tccctcttct acgctgcccc ggccagccag gccctctcag gatgtgagat 600
ctctatttca aatgagacca aagatctgct tctggcagct gtcagtgagg actcatctgt 660
taccagatc taccatgcag ttgcagctct aagtggcttt ggccctccct tggcatccca 720
agaagcactc agtgccctta ctgctcgtct cagcaaggag gagactgtgc tggcaacagt 780
ccaggctctg cagacagcat cccacctgtc ccagcaggct gacctgagga gcacgtgga 840
ggagattgag gaccttggtg ctgcctgga tgaactcggg ggcgtgtatc tccagtttga 900
agaaggactg gaaacaacag cgttatttgt ggctgccacc tacaagctca tggatcatgt 960
ggggactgag ccatccatta aggaggatca ggtcatccag ctgatgaacg cgatcttcag 1020
caagaagaac tttgagtccc tctccgaagc cttcagcgtg gcctctgcag ctgctgtgct 1080
ctcgcataat cgctaccacg tgccagttgt ggttgtgcct gagggctctg cttccgacac 1140
tcatgaacag gctatcttgc ggttgcaagt caccaatgtt ctgtctcagc ctctgactca 1200
ggccactggt aaactagaac atgctaaatc tgttgcttcc agagccactg tcctccagaa 1260
gacatccttc acccctgtan gggatgtttt tgaactaaat tcatgaacg tcaaattttc 1320
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cgtagagctc agagtcaaga tctccactga agttggcatc acaaattgtg atctttccac 1440
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caagggcaca ttcatcgcag acagccacca gaacttcgcc ttgttcttcc agctggtaga 1560
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catcaagttc cctgaggaag aagctccctc gactgtcttg tcccagaacc ttttactccc 1860
aaaacaggaa attcagcacc tgttccgcga gcctgagaag agggccccc cctgggtgtc 1920
caatacatte actgccctga tcctctcgcc gttgcttctg ctcttcgctc tgtggatccg 1980
gattgggtgcc aatgtctcca acttcacttt tgctcctagc acgattatat ttcacctggg 2040
acatgctgct atgctgggac tcatgtatgt ctactggact cagctcaaca tgttccagac 2100
cttgaagtac ctggccatct tgggcagtggt gacgtttctg gctggcaatc ggatgctggc 2160
ccagcaggca gtcaagagaa cagcacatta gttccagaag aaagatggaa attctgaaaa 2220
ctgaatgtca agaaaaggag tcaagaacaa ttcacagtat gagaagaaaa atggaaaaaa 2280
aaaactttat ttaaaaaaga aaaaagtcca gattgtagtt atacttttgc ttgtttttca 2340
gtttccccaa cacacagcag atacctggtg agctcagata gtctctttct ctgacactgt 2400
gtaagaagct gtgaatattc ctaacttacc cagatgttgc ttttgaaaag ttgaaatgtg 2460
taattgtttt ggaataaaga gggtaacaat aggaaaaaaa aaaaaaaaaa aacncgaggg 2520
ggggcccggt ncc 2533
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<210> 271

<211> 1618

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1612)

<223> n equals a,t,g, or c

<400> 271

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gtctggtctc tcaaagggag cagcctctgt agtggttaaat ggctaattaa aataggaaga 60
tctttatagc cagaaacaac ttagtcatca aatagcaagt gaaacaaaaa cgtcagaggg 120
attactgtac ttggaagtat gttgtgtgtc ccaaatgtga acgaagtatt gttagaattt 180
attagatcag cttcttttga gatcaaagat tggaaatcct agtcatagat attcactgga 240
ctggcttttg actgaaatgc tcctttgtta ttcttttcct attgtctttt ccttctagt 300
tcccaaaata ttttctttaa rgtcagcaca gtactgtata tgaatcttta atgtggtatc 360
atatatgtct acttttgtct gattcatcga tgtattatat ctttataatt gaatatttta 420
gctccgggtc ctggtgcccc ttcaagcagt acatgccaaa ttataaatag gtgctactgg 480
ccttgagcat atcactgtgg gacagtcccc caattgtcaa gtgtttagat atgtagacta 540
ttgccatttg tttttttgtt ttggttttgc tttgtgtctg aagctgaatt gatttctttt 600
ttttgaatgt gaaagttgaa ttcaaacgt agtcatttct tacagatggc caagacagaa 660
aattgtggct aggttgactg agaactgttg tcttccatgt attaacacaa ttaagctttt 720
tatattccac tctctgtgct gaccctggct gaggcatttt gggagacaag gactctgaat 780
cttctgcttc cattaaagaa gaactgtgat attcaacatt ggatttctga gaataaagat 840
aggatgattc ctttgaactt tgacttactt gtataaaatg tccagctagg ttaggttttt 900
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aatgttcatt cctgttttct cttaagagaa tgtgctgtgt actaaatata ggccacatag 1020
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agggggtcag tttctttttc tcattgtgtg ttgataatct acacaccatc tgttggaacc 1140
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aggagagaag catttccttt gatgaagtca catcctgtct atgagccac taatgctgta 1260
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ttccttccca gagaactggg aaattgtcct agaaataaac cttgtacagt tgagtggaca 1440
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atcctgtaaa tattcatgat agtctgttta tacccttttg tatatcgttg atactggatt 1560
gggtagaaaa ataaattggc aatttaaaaa aaaaaaaaaa aaaaaaaaaa tntctcgg 1618
```

<210> 272

<211> 470

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<400> 272

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aaacagcaag tgggaactca gcattcaagt taacttgtag agctacccag ctgctaagag 60
cagtgtgatac tttggtgctc ttaggatcac tttggtatct gctcattttc ctttttgtct 120
accctataaaa gcacaaaatc gagtgggtaa aaagtatgaa accagcaactg tttctacttt 180
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catttgattt tgtttttccc tcagttgact ttccatcttc agttcgaata catttaattg 360
acaaaaatgg cagacattga gtgagtaact cttgncccag tttnaattct ttccttcctt 420
ttttncgccng gttgtgagtt aattgggtca acttctgggt tcagggtttt 470
```

<210> 273

<211> 983

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (879)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (915)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (930)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (967)

<223> n equals a,t,g, or c

<400> 273

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ccaagcggaa gtgacgttag tgtccgccgg agtgtcggtg gtgtggttgcg cgactggcct 60
tgaggggagag ctgggggcctg ctcccggaga gatacggcta tgtcgatcga aatcgaatct 120
tcggatgtga tccgccttat tatgcagtac ttgaaggaga acagttttaca tcgggcgtta 180
gcaccttgca ggaggagact actgtgtctc tgaatactgt ggacagcatt gagagttttg 240
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tggctgacat taacagtggc cattgggata ctgtgttgca ggctatacag tctctgaaat 300
tgccagacaa aacctcatt gacctctatg aacaggttgt tctggaattg atagagctcc 360
gtgaattggg tgctgccagg tcaacttttga gacagactga tcccatgata atgttaaaac 420
aaacacagcc agagcgatat attcatctgg agaacctttt ggccagggtct tactttgatc 480
ctcgtgaggc ataccagat ggaagtagca aagaaaagag aagagcagca attgccagg 540
ccttagctgg cgaagtcagt gtggtgcctc catctcgtct catggcattg ctgggacagg 600
cactgaagtg gcagcagcat cagggattgc ttcytcctgg tatgaccata gatttgtttc 660
gaggcaaggc agctgtcaaa gatgtggaag aagaaaagtt tcctacacaa ctgagcaggc 720
atattaagtt tggtcagaaa tcacatgtgg agtgtgctcg attttctcca gatggtccag 780
tatttggtca ctgggtctgt tgatggattc attgaagtat gggaacttta ctactggaaa 840
aatcagaaaag gatcttaagt taccaggccc aagattaant ttatggatga tgggttgatg 900
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cccaggntgg gaaaattcaa ggt 983

<210> 274

<211> 2006

<212> DNA

<213> Homo sapiens

<400> 274

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aatgagcaag cccagaagt attttacaac cagagtgggt aatgaggagg gggcttactg 180
gaatcgatcat atctctgaat attgaaaaca acaactaaaa aagtggacct tctcagaaaa 240
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gaacattcca tatgtttctt tctccatcgg ccaaaaacat tttgacacaa tgtttgatga 420
acaccttttg agaggtgcac ttctgaatgc tgccctctgc gtaaatcctg ggggcaagg 480
atcagcctct tcccaggaa catcgccctc tataaacctg gaactcaagc aggcattttt 540
tttttcttac cgaaaggctg ctattgtgca agggcacata atgggtctgt ttgctcttat 600
tggtctccaa atgtgcatgg caaagagaga gatgtgggcc tagagcagat atattcagca 660
agggtgacagy ttccataaac aattctaaca cttcttatct tatgtgagaa taaaatattt 720
aaggggtgaa ccttattttg ccaaatgtat cttttctgct tttgaattgg gcagaagatt 780
ttagcaacta tattctacaa atgttactta taacacacac acacacatct gaaatatatg 840
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ggctccagtg ggtctaaaca accacatcct atccatggat aggtctagtc ataactttt 960
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<210> 275

<211> 1376

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1368)

<223> n equals a,t,g, or c

<400> 275

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<210> 276

<211> 2594

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2198)

<223> n equals a,t,g, or c

<400> 276

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caaaaaaaaa aaaa 2594
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<210> 277

<211> 679

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (653)

<223> n equals a,t,g, or c

<400> 277

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ccaaaccgtg gaacccaaa 679
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<210> 278

<211> 1478

<212> DNA

<213> Homo sapiens

<400> 278

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gattaaaatg tcaatgtaat ctaaaaaaaa aaacaaaa 1478

<210> 279

<211> 2321

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<400> 279

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<210> 280

<211> 1693

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<400> 280

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<210> 281

<211> 258

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<400> 281

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gtggtgctct ggaatccagt cccatttcct tcttggccac gagctgtccc agcggcctct 180
tcagccgcct tcagccccta cttacctggg gaccccggtt ggggcacgag aagcaccagg 240
ggggttaggg cccaaagg 258

<210> 282

<211> 1764

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1764)

<223> n equals a,t,g, or c

<400> 282

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<210> 283

<211> 799

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (760)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (769)

<223> n equals a,t,g, or c

<400> 283

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agtttctaac ttggaaaata aacaaccagt tgagtcgaca tctgcaaat cttgttctcc 480
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tgatgatatg acagatgaca ttccctgaaag ctcaactctc tcaccaatgc catcagagga 720
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ggccaaaaaa ggggcccgt 799

<210> 284

<211> 1489

<212> DNA

<213> Homo sapiens

<400> 284

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<210> 285

<211> 702

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<400> 285

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tggattcatg gagtagcctg gactgtttca tagttttcta aatgtacaaa ttcttatagg 180
ctagacttag attcattaac tcaaattcaa tgcttctatc agactcagtt ttttgtaact 240
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ttagggcaga ttttggttg gttttacata gttgagattg tactgttcat acagttttat 480
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<210> 286

<211> 1175

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1166)

<223> n equals a,t,g, or c

<400> 286

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<210> 287

<211> 2873

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2870)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2871)

<223> n equals a,t,g, or c

<400> 287

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<210> 288

<211> 2104

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1323)

<223> n equals a,t,g, or c

<400> 288

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<210> 289

<211> 1251

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1231)

<223> n equals a,t,g, or c

<400> 289

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<210> 290

<211> 1591

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (768)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1538)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1562)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1568)

<223> n equals a,t,g, or c

<400> 290

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atgtctggaa atataggggc aaatccaagg gttgtgttat ccatactttc aggttggtcg 1500
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<210> 291

<211> 2386

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<400> 291

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taaggatttt tatatggcct tgtatgaggg gagtttgaat gtaataaac atgttttcca 2340
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<210> 292

<211> 983

<212> DNA

<213> Homo sapiens

<400> 292

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gcttgtgggg tcttaggtga tggtgcctt ctttcttcat caccacacc agcttcttgc 180
tggcacttag gggaagagag cagcaaatga gagatttacc ttttatctcc cagcgagcga 240
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gaatgaatga ggcaatcacg ttacaccaa tcagcagatc aaaagacaaa cacatatttc 960

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983

<210> 293

<211> 2655

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2595)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2611)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2651)

<223> n equals a,t,g, or c

<400> 293

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aaagactggc aatcagaaac catagagtat aaagatgac aggacatgca tgctttaggg 180
aaaaagcaca ctcatgagaa tgtgaaagaa actgccatcc aaacagaaga ttctgctatt 240
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catcaagtgc ccagttctgt gagctcacct gatgatgcca tggttagtcc tctgaaacct 360
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<210> 294

<211> 1738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (854)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1679)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1693)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1717)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1729)

<223> n equals a,t,g, or c

<400> 294

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caacatgat gcaattgtag ttcgaaagat ggctatctca gctgttgctg gtatccttaa 180
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cttttgggag ggacgaacca actgggaggg ttccggagaa atgggctggc ctaacttanc 1680
cttaagccgg gtntggctaa acagtggtaa acttttncct taacccatng ggaccagt 1738
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<210> 295

<211> 1020

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<400> 295

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ctgctgttcc ctccsgtggt agcacgtcca gctgcacccg gaggccgatg gctgccaaaca 180
cgtggtggaa tttgacttcc tggggaagga ctgcatccgc tactacaaca gagtgccggg 240
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```

<210> 296

<211> 684

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (660)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (675)

<223> n equals a,t,g, or c

<400> 296

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cattcagatt tctgacttca attgaaaatc tgacagtata aaccctatta tattcctgca 420
tggcataaaa tcttcagttg ctgaatggtg atatccactt ttagaaagag tactctaccc 480
tgttctgcat tcatacaacc taagccaacc cgcccttcac cateccactt ctctttcagg 540
ttatctgctt aggctggtag gcatttgtgt ttataaacct tgaactcaag ctgctagatg 600
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ggaccacttt aaatnccctt ttct 684
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<210> 297

<211> 1838

<212> DNA

<213> Homo sapiens

<400> 297

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ggagaagagg ctaatgatga caagaagcca accactaaat ttgaactaga gcgagaaaca 180
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```

<210> 298

<211> 1635

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1609)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1635)

<223> n equals a,t,g, or c

<400> 298

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tcgcgtcacc acagaggcaa gacaagggtc catatcgcgg catccggctc ccgcccgtct 180
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cagaagatgt tgctaaattt gcataagaag agttggatgg aaggtttgac acttcaggac 1020
tacagtgaac attgtaaaaca caatgaatca gtggtaaaag agatgttgga attagccaag 1080
aattacaata aggcgtgtaga agaagaagat aagatgacac ctgaacagct ggcaataaag 1140
aatgttgga agcaggaccc caaacgtcat ttggaggaa atgtggatgt acttatgacc 1200
tcaaattattg tccagtgttt agcagctatg ttggatactg tcgtatttaa ataaagcaac 1260
gaaaaacgct attaatgatg ccttcagtgt atattcctct gttgttccta atgctcaaaa 1320
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agattctaaa gttatacatg aatacatcaa agtggacaaa ttttggttaag atcccattta 1500
atatttgaaa aaatcagtag cacaaatata ttttgattgt cacttacaaa ataaaatata 1560
tttacagtcw aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaa aaaaan
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1635

<210> 299

<211> 868

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (790)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (857)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (860)

<223> n equals a,t,g, or c

<400> 299

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gctgaggggt agcgatgcgg gctccgggga tgaggtcgcg gccggcgggt cccgcgctgt 60
tgctgctgct gctcttcctc ggagcggccg agtcggtgcg tcgggcccag cctccgcgcc 120
gctacacccc agactggccg agcctggatt ctccggccgt gccggcctgg ttcgacgaag 180
ccaagttcgg ggtgttcac cactggggcg tgttctcggt gccgcctgg ggcagcgagt 240
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actaccgcc cggcttcagc tacgccgact tcggaccgca gttcactgcg cgcttcttcc 360
acccggagag tgggccgacc tcttcaggc cgcggggcgc aagtatgtag ttttgacgac 420
aaagcatcac gaaggcttca caaactggcc gagtcctgtg tcttggaact ggaactccaa 480
agacgtgggg cctcatcggg atttggttgg tgaattggga acagctctcc ggaagaggaa 540
catccgctat ggactatacc actcactctt agagtgggtc catccactct atctacttga 600
taagaaaaat ggcttcaaaa cacagcattt tgtcagtgca aaaacaatgc cagagctgta 660
cgaccttggt aacagctata aacctgatct gatctggtct gatggggagt ggaatgtcc 720
tgatacttac tggaaactcca caaattttct tcatggsty tacaatgaca gccctgkcaa 780
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ttgccacatg tgaggcncan gtagttc 868
```

<210> 300

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (526)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<400> 300

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ccacgacgtc cscggaacgc tsgettacgg ggccctgagcc tctccgccgg cgcaggctct 60
gctcgcgcca gctcgtccc gcagccatgc ccaccaccat cgagcgggag ttcgaagagt 120
tggatactca gcgtcgctgg cagccgctgt acttgaaat tcgaaatgag tcccatgact 180
atcctcatag agtggccaag tttccagaaa acagaaatcg aaacagatac agagatgtaa 240
gcccatatga tcacagtcgt gttaaactgc aaaatgctga gaatgattat attaatgcc 300
gtttagttga catagaagag gcacaaagga gttacatctt aacacagggt ccacttccta 360
acacatgctg ccatttctgg cttatggtt ggagcagaa gaccaaagca gttgtcatgc 420
tgaaccgcat tgtggagaaa gaatcgagt gtgaaacaga acaatatctc actttcatta 480
tactacctgg ccagaatttg ggtcccttg aatcaaccag cttcanttct caatttcttg 540
gntaaag 547
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<210> 301

<211> 865

<212> DNA

<213> Homo sapiens

<400> 301

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ttagtagaga tggggtttca ccacattggc caggctgggc tcaaactcct gacctcaagt 60
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gaatccacct accttggcct accgaggtgc tggattaca ggtgtgagcc accgcgcctg 120
gcctaatact gctttattac aacgttatct gtgggtcgga atccttttat attgggtaac 180
agatgaccct gactcagaat aatctttttc aatggccttt tgagggaagc ttgtgaagtt 240
ctggtgaatc ttctttttca cttcactttc agtgagctga aagtaaccaa actaaatata 300
tgtatttgtt aaagggacag gacaagacag ccttaaaaaa ttgaatatag ttggtgagac 360
aactcagaag tacagggttg agcatccctt attcaaatg cttgagaagt gttttgggtt 420
ctggaatatt tgcattaatg cttgccagtt gagcatccca ggtccggaaa tccacagtgc 480
tccaatgagc ctttccctg agtgtcacat ctgtattggc actcaaaaag tttcatattt 540
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tgctagtgtc tcataaagtc ttcyaaaaaa aaaaaaaa aatcaaatgt ttggaagcca 720
ttttgtgtta ctgtgtgact ttcttttact caaaaacagc accataaaat ttctgacaag 780
tactataggt aaagaaatcc ctttatactt aacctagtat tttctacctt tccccatcta 840
aaataaaatt tttataccac tttct 865

<210> 302

<211> 815

<212> DNA

<213> Homo sapiens

<400> 302

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ctgagaaggg gacaaaaaga cctttccttt catgtccaga agaattgtatg taactaaagc 180
tttgcctctt gtgaagaatt ataaaaggga ggggggaaag gattcgctc tcctacagaa 240
attctgaatt catttaagtt ctaagcattt gatttatgtt atttatacag ttgggatcta 300
attaggaaaa tgtgttttgt agttctggat aaactatttc atccgctgtt tcctcccaa 360
aacacacaca cagagcaaac tccctttcat aaaagccctc atatccactg gcagtccccg 420
ttcgcatcat ggtctccatg tgtaccgcca aagtcaatta tgtttgaaag cctttggtgg 480
atgttatggg gcaaagtatt gatttacaca gaagcaactg ccaaactctgt ggtgcaacca 540
ctatctccag tgaaatattg tataacacca tttggaacta ctgaaaagac agtggctttt 600
ctacagtact cttccttatt gcaccatttt tgtattaacg tagaaactaa gcatcagaat 660
ttatgaacaa agaatatgtt atttttccyt ttgcyctaaa atactgagga tttggggaag 720
caattcyttt ttaaaaaaat tttggaataa ctaycttttg rtacacattc gggsggttac 780
ggtgttgggg atttaggcag gactatccaa atccc 815

<210> 303

<211> 1919

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1907)

<223> n equals a,t,g, or c

<400> 303

actgacagta cggtcggaat tcccgggtcg atccacgcgt ccgcggacgt ggsacaaaaa 60
cagatgctag gaagcttggc ttcctcttct tgttgaccct tttttgaacc aacatctttt 120
ttattatatt cagagtatgt ttttaagtgt atcttaatat atacattttt taggacatct 180
taaatactaa caaaaaataa aatgaacatc tcttgaaacc tgttaaaaca accagttaaa 240

```
gccacagatg gctttcaggg cagtagcagc agaggccagt ggactctgag gactcctgag 300
gggcggggcg tgtagccagc caggtgcatg ccgggacccat ggcccccata cttggctgct 360
tcctgtgaca gtgaaataca tccttcaagg tggcagctgt tagggctgaa tcttctggag 420
aaaaaggtgc catctcagga gaatagcttt tactctggta ggaatgcttc cgagacacca 480
caaggcagcc tgaacactca gttgcagggg cgggcttgcg gtgggtgacc cagagccacc 540
aaagtcacat ccacaactaa tgagggaaat ctgtaaaagc agttagatag aagaatttta 600
tttttctgtg ggttttgtgt tgtctttttt atgttaaaaa gaaatccagt ttgtgttttt 660
ctatagraaa agtaaaagat caggttatac tttagggttag gggttctatt tattcctggt 720
agtaaataaa attaacaagt ttctttgttt aacaaaagat taatctttaa accactaaaa 780
tacatagact gattgattat tcaacacatt ggaattgatg tcggtcatag tttcctgaag 840
catttagtta caacctgaag gaataaaatg atttgtggaa atgcttaaaa tagacctaac 900
tgaatacagt ctcactctgc cgcgcctggc ttacctatct gtggaaagct aggcctccca 960
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catttttaag atagaacaca aaacttgaaa gaagttttat gcgtgtgaca gtgtatgggg 1140
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ttaagtatg tgtttgagtt aaatataaag ttggttcaact tcaaagctaa aaaattgtta 1500
aacttgcagc ttggtattgc agagaagatt ttataagaat ttgcttttag agaatgccac 1560
tttggctgaa ctacaagtgt agggccaccat tataatttat aaatacagca tacttcaaaa 1620
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gcttgacaga ctcaagagaa actaccagc tattacacaa gccaaaatgg gagcaaggcc 1740
ttctctccag actatcgtaa cctgggtgcct taccaagttg tgcttttctg ttttcaagt 1800
taaagtatgt tgagcagaat gttgtacttg aaaatgctat aagtgagatg gtatgaaata 1860
aattctgact tatgaaaaaa aaaaaaaaaa agtcgacgcg gccgganatt tagtagtag 1919
```

<210> 304

<211> 157

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (112)

<223> n equals a,t,g, or c

<400> 304

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aggtgtacac cctgcccagc cacaagccga tttttaaaag gtcaaagct atgacagcca 60
ttttacagga aaaaaaaaaa ttgtatagtt gtggtgacgt tcctcacaca gngcaccagc 120
ttcaggagtg ctgtcccttg cagacccctg aaccggg 157
```

<210> 305

<211> 343

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<400> 305

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aatgcagtgt tttcgattac tgatctctca ttaccaact atctgatggc atcttcggtt 60
ggactgcttc ctaccagct tctgaattct tacttgggta ccacctgcg gacaatggaa 120
gatgtcattg cagaacagag tkttagtga tattttgttt tttgtttaca gattattata 180
agtataggcc tcatgtttta tgtagttcat cgagctcaag tggaattgaa tgcagctatt 240
gtagcttggtg aaatgggaac tggaaatctn ctctgggtta aaggcaatca nccaaatacc 300
agtgggctct ttcattctac aacaagagga ccctaacatt ttt 343
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<210> 306

<211> 696

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (553)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (585)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (649)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (661)

<223> n equals a,t,g, or c

<400> 306

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gaagcaggca ggttgctcag ctgcccccg agcgggttcct ccacctgagg cagactccac 60
gtcggctggc atgagccggc gccctgacag ctgcgcccta cggccacccc gctgctcctg 120
cagcgccagc cccagcgagc tgacagccgc cggggcgccct cgaccctcgg atagttgtaa 180
agaagaaagt tctacccttt ctgtcaaaat gaagtgtgat ttaattgta accatgttca 240
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ttccggactt aaactggttaa aacctgatga cattggaaga ctagtttcct acaccctgc 300
atatttggaa ggttcctgta aagactgcat taaagactat gaaaggctgt catgtattgg 360
gtcaccgatt gtgagcccta ggattgtaga acttgaaact gaaagcaagc gcttgcataa 420
caaggaaaat caacatgtgc aacagacact taatagtaca aatgaaatag aagcactaga 480
gaccagtaga ctttatgaag acagtgctat tctcaattt ctctacaaag tggcctcagt 540
gaccatgaag aangtagcct tctggaggag aaattcggtg acagnctaca atnctggctg 600
gttacaaatc caaggcccag acccaatatt cccaacaaaa aacttttgnt tggccaggtc 660
nttcaatttt tgaaaaaaag tgggttttgg tttaac 696

<210> 307

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<400> 307

cctaggcctc ccaaaatggt gggattacag gcgtgaggca ccgcacccaa cctaacagag 60
gaaacacttc aaatgcacat cctcacattt ctagtctacg tagctggaaa aaaaggacat 120
tyttaatatg ctaatgtgga ggtcacctag ttaccctaag ggagaaaagc aaggcaagga 180
cccactgcac agcaagttcc cccttggaag cccacgggcg cactgcccac aaatgcacat 240
aatctctgca gaaatacaaa agccctaatt ctggctgcac tggggacaca ggtaggagga 300
aattttcccc tgtaagcagt ttgaattct gaactatgtg gacagamcac caattttaaa 360
acaatgaaag tgagttggct gggcacatgg tttngc 396

<210> 308

<211> 549

<212> DNA

<213> Homo sapiens

<400> 308

agagacaggg ggcaagaagg ggtgtmaggg ccagtraca aaatcattgg ggttttagt 60
cccaacttgc tgctgtcacc accaaactca atcatttttt tcccttgtaa atgcccctcc 120
cccagctgct gccttcataat tgaaggtttt tgagttttgt ttttggctct aatttttctc 180
cccgttccct ttttgtttct tcgttttgtt tttctaccgt ccttgtcata actttgtgtt 240
ggaggggaacc tgtttcacta tggcctcctt tgcccaagtt gaaacagggg cccatcatca 300
tgtctgtttc cagaacagtg ccttggtcat cccacatccc cggaccccg cttgggacccc 360
caagctgtgt cctatgaagg ggtgtggggg gaggtagtga aaagggcggg agttgggtgt 420
ggaacccaga aacggacgcc ggtgcttgga ggggttctta aattatattt aaaaaagtaa 480
ctttttgtat aaataaaaga aaatgggacg tgwaaaaaaa aaaaaaaaaa aaaaactcga 540
gactagttc 549

<210> 309

<211> 1778

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (1704)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1744)
<223> n equals a,t,g, or c

<400> 309
ctgtcttggc cttccagggt gctgggatta caggcgtgag ccactggaac ctggccttgt 60
tttgctttat tttttctctt acatgaagta aagcgctttg gtcaaacaca caaaaatact 120
gccttgtact ggtggttggg ttcattagt gatcacacac agtggtctac ttggcttgta 180
aaatggtgcc ttggataggg tgagtttgga taagtatgta tgtatgtatg agttatagca 240
aaattaagta gattgaatca agtccatgca aaagcaataa aacagtttta attttttaaat 300
tttttaaaaa ttaaaacttt aataaaacag tttttaattt ttgtctagggt tcttttaaaa 360
aatgatgtaa cttacatgga agtcttcaca ggactttttt ctttcctgga actattgaaa 420
tgtaatttag gatgatttga tcttccatct caagttgtca acatggctgt gtcattctgg 480
cttacatatg ttttatttta caaaattcta gtcaagggat aagggcataa tgaagacaag 540
cttcagttat gaaagtacaa actatttgtg tgattaattt ttaaaaatga cattaagaag 600
ccattgtaa aataatattt gcagtcaaat ggtttttctt gctgtaagtc ctggtgtagc 660
tatgtttagg gtatgtgttc tcatctacct tggagtgcac aagacttacc tagcaggctt 720
gttttaaaaag ttcagattcc tagctttgta ccaggggatt gcctcagggt gtatgggctg 780
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catcgaatgg gaagtaccaa ggagaaagta caattcagta ttgtctggag gcaagtggac 900
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tatagttttt aaaaagtgca atgggatgag attatgctat tagtatatta aaagcatgtt 1620
tctgttttac tccaatttgt aagatcattt aatggaataa agatcacaa accaaaaaaa 1680
aaaaaaaaag gcgggccgct ctanaagatc caagcttacg tacgcgttgc atgcgacgtc 1740
atanctcttc tatagtgtca ctaaattcaa ttcactgg 1778

<210> 310
<211> 771
<212> DNA
<213> Homo sapiens

<400> 310
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acagtgggtt gagaggctgg gaggggtgag gggaagataa acttttataa agctcttatt 120
tttcatttca atcagttaaa aatacttgct cagtgttaaca attttgcttc tcagcttcca 180
ctctaataat gttgtgccat taagcaattt agctaattcct gacatttctt agattcataa 240

tgtaggagc atttaatctg tattttacaa gtaggaagc agaggatcag agatgggaaa 300
ggactagccc aaggccaaca ttaacaagcc ctctaacaaa aactttacaa tacatttatg 360
ttgaatggaa ctccaagatc tcacctctcc atccaggaat ggagtccatg taatcaaagt 420
gaacttaaaa ataggacagt ttcaacaagt caggagattc acagcaactg atcaaaggga 480
gtccagtcaa cgtgagcaag cgtgattatg atgaggaagc cccctctgct ttaatccaca 540
caaggaacgt aacctgaagt aacctgatgt taaccaatct gctgtgtcta ctatgctgtt 600
tccttgttcc tgctagtgtc gctttacaaa tgcagaccat tctatcatac ctggcrgggc 660
ttctgtttta tttttagggc tggatgctac ccagttcatg aatcgctaataaaaagccaat 720
tagatcttta taaaaaaaaa aaaaaaaaaat tactgcggcc gacaagggaa t 771

<210> 311

<211> 1419

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1005)

<223> n equals a,t,g, or c

<400> 311

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tatggagctg cctgttccga ggttgaaata gactgcctga cgggggatca taagaacatc 120
agaacagaca ttgtcatgga tgttggtctg agtataaatc cagccattga cataggccag 180
attgaagggtg catttattca aggcattgga ctttatacaa tagaggaact gaattattct 240
ccccagggca ttctgcacac tcgtggtcca gaccaatata aaatccctgc catctgtgac 300
atgccacagg agttgcacat tgctttgttg cctcctctc aaaactcaaa tactctttat 360
tcacttaagg gtctgggaga gtcgggggtg ttcctgggtg gttccgtgtt tttcgctatc 420
catgacgcag tgagtgcagc acgacaggag agaggcctgc atggaccctt gacccttaat 480
agtccactga ccccgagaga gattaggatg gcctgtgaag acaagttcac aaaaatgatt 540
ccgagagatg aacctggatc ctacgttcct tggaatgtac ccatctgaat caaatgcaaa 600
cttctggaga aaacagagtg cctcttccca gatggcaatc tgtcctatct ctgtgctgga 660
agatgctaga tctgaaagac agagtttcca cagttcagaa atcatccac agtggttgctt 720
ttctatggag ctgatttaaa gtattccatt tagattgat agatatgctt aagcaatcta 780
taaatcattt tcaatgttat aaacactaat tggtttcctc taggggtgata ttcgtcatta 840
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cttggtctct atccaccaac agaaattata ccatatagtg aaaggcaatt ttctaaataa 960
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ccttcctctt gtcagaatga atatagacac tgtatctaag tgggaccaa gaaaaatag 1080
cgaactttca ccaaagtgtt catgaaaacc caaagcttt aaaagktact atcaagaaat 1140
tgaaaggaaa cccacagaat aggataaaat atttgtaaat catatatattg ataaaagtct 1200

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tgtaaccaga tacataaaga gctcttacaa ctcaataaaa ggcaagtaat ttaaaaatag 1260
gcaaaagaat tgctggatgg tatggtagtt ctatttttag tttttaccct aactactctg 1320
acttgatcat ttaacattct gtgtatgtaa caaaatatca catgcataaa tattatgtat 1380
caataaaatt ttttaatggg caaaaaaaaa aaaaaaaaaa 1419

```

<210> 312

<211> 526

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (525)

<223> n equals a,t,g, or c

<400> 312

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gggaagtcca aagggaatth tttattggt tagcttggtt ttaggttgca gtaaattctc 60
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agccattttc atttatatac ctaattcaat aggtttataa ataaaagggc aaatcctcac 300
gaataatata gtacagtga aaattgctct cccctagga actgaggaat agaaaaacaa 360
tttcctctta cattgtttat agtaggtagc ccttgaaaag aaaatcactt atccctgcca 420
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<210> 313

<211> 2435

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2408)

<223> n equals a,t,g, or c

<400> 313

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accatgatgt ggaatattht ctctggctgg ctcatgagct gggactgctg gttatcctga 420
ggcccgggccc ctacatctgt gcagagtggg aaatgggagg attacctgct tggctgctag 480
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ggttgggagt ccttctgccc aagatgaagc ctctcctcta tcagaatgga gggccagtta 600
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gcttcctgca gaagcgcttt cgccaccatc tgggggatga tgtggttctg tttaccactg 720
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gaggggctga cagcacagta acgtgcatac atatctgcag ggctggaatg gaagctttaa 2340
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actcaanaa aaaaaaaaaa aaaaaaaaaa aaaaa 2435
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<210> 314

<211> 2543

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2538)

<223> n equals a,t,g, or c

<400> 314

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actgaaaaac ataatgctca tgggtgctgg aatgggtttac gttatggcct gagcagcatg 180
caaggatgga gagtggaat ggaagatgca cacacagctg ttgtaggat tcttcacggc 240
ttggaagact ggatcattttt tgcagtttat gatggatcat ctggatcccc agtggcaaat 300
tactgctcaa cacatttatt agaacacatc actactaacg aagacttttag ggcagctgga 360
aatcaggat ctgctcttga gctttcagtg gaaaatgtta agaattggtat cagaactgga 420
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tttttgaaaa ttgatgaata catgcgtaac ttttcagacc tcagaaacgg gatggacagg 480
agtggttcaa ctgcagtggg agttatgatt tcacctaagc atatctactt tatcaactgt 540
ggtgattcac gtgctgttct gtataggaat ggacaagtct gcttttctac ccaggatcac 600
aaaccttgca atccaaggga aaaggagcga atccaaaatg caggaggcag cgtgatgata 660
caacgtgtta atgggttcatt agcagtatct cgtgctcttg gggactatga ttacaagtgt 720
gttgatggca agggcccaac agaacaactt gtttctccag agcctgaggt ttatgraatt 780
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atgtagttgc ccttgtgnag gtt 2543

<210> 315

<211> 828

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (828)

<223> n equals a,t,g, or c

<400> 315

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cgtgaagtac tacaccctag aggagattca gaagcacaac cacagcaaga gcacctggct 180

gatcctgcac cacaaggtgt acgatttgac caaatttctg gaagagcatc ctggtgggga 240
agaagtttta agggaacaag ctggaggtga cgctactgag aactttgagg atgtcgggca 300
ctctacagat gccagggaaa tgtccaaaac attcatcatt ggggagctcc atccagatga 360
cagaccaaag ttaaacaagc ctccggaaac tcttatcact actattgatt ctagtccag 420
ttggtggacc aactgggtga tccctgccat ctctgcagtg gccgtcgcct tgatgtatcg 480
cctatacatg gcagaggact gaacacctcc tcagaagtca gcgcaggaag agcctgcttt 540
ggacacggga gaaaagaagc cattgctaac tacttcaact gacagaaacc ttcacttgaa 600
aacaatgatt ttaatatatc tctttctttt tcttcgcaca ttagaaacaa aacaaaaaga 660
actgtccttt ctgcgctcaa atttttcgag tgtgcctttt tattcatcta ctttattttg 720
atgtttcctt aatgtgtaat ttacttatta taagcatgat cttttaaaaa tatatttggc 780
ttttaaagta aaaaaaaaaa aaaaaagggg gccgcctaa aggggtccn 828

<210> 316

<211> 1608

<212> DNA

<213> Homo sapiens

<400> 316

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aaagaagtc tttcaagtct ctaggactgg actcttctta agcaagtcct gaagcaccct 180
cactatgtgg ctctacctgg cggccttcgt gggcctgtac taccttctgc actggtaccg 240
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gggctttggg aacctgctgg ccagacagct ggatgcacga ggcttgarag tgctggctgc 360
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ggtgaccctg gatgttacca agatggagag catcgctgca gctactcagt ggggtgaagga 480
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tggtgtgatc caggtgacct tgagcatgct tcctttggtg aggagagcac ggggaagaat 660
tgtcaatgtc tccagcattc tgggaagagt tgctttcttt gtaggaggct actgtgtctc 720
caagtatgga gtggaagcct tttcagatat tctgaggcgt gagattcaac attttggggt 780
gaaaatcagc atagttgaac ctggctactt cagaacggga atgacaaaaca tgacacagtc 840
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aagaaatatg ttggtgtgtt tgtccttact tgaaatgggt ctgtattatg gtacttttaa 1560
taaataattg atttttcttt ctcttcaaaa aaaaaaaaaa aaaaaaaa 1608

<210> 317

<211> 1057

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (958)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (966)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1035)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1053)
<223> n equals a,t,g, or c

<400> 317
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cagccttttag cttattcctc cttcaataca cgggaccttt ggtaatttg gggcaggaaa 120
actcttaaag taatctctct tgggcagagg ccttattgca ccagagggaa aaagtatata 180
cttcatttgc tggtactcca gttatgcctt aaattcattt gcttggtaat cctatcaacg 240
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ctttattttt tgctgagatg gagtcagtca gatgttagtc atagctaaca ccgaatttgt 360
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aaccagcag aaacctttca cacagccact catcgtaaga aacgcagatt tttctcttct 600
catgcttgct tctggttccc tgcatttgta gtgacagaac tttcactagc aggatataaa 660
gaaagtaatt atgcttgag tccctcttta ctgggttga gtaggtgca taacatggaa 720
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gccgtcttcc ttctggetta gcaggtgctg cagctgtact ctcgactcct gtctgtgnag 960
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ttccttaaa tgcnttcat tggcccaatt cntttt 1057

<210> 318
<211> 1336
<212> DNA
<213> Homo sapiens

<400> 318
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tatagagatt tgaaactgga caatgtatta ctggactctg aaggccacat taaactcact 180
gactacggca tgtgtaagga aggattacgg ccaggagata caaccagcac tttctgtggt 240
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gaaaaacaaa ttcgcatacc acgttctctg tctgtaaaag ctgcaagtgt tctgaagagt 480
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taatataaaa tgcaacaact ttttatatta cctattagtt ttggagttct ttatgtttaa 1260
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<210> 319

<211> 496

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (439)

<223> n equals a,t,g, or c

<400> 319

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atcgagcatt gatcaatgtc caaatgctga acaattcagg attcgctagg ggaattattg 120
aagagttcca aaataataat gaccttgagt tacaacaaaa atgtattaat gtactaagca 180
catatgctat gattcagggg caaattgatg caaataagga gattgggcag ttcttcatac 240
aaactttaac acagttgaat gttcgccctg aaattttgat agaaatgaca aattcgcttt 300
tccaatttac ggggatgcct cttacggcta taatggaacc atwtttgtaa ggggtgggtt 360
tttatcyatt ctaaargacc cagttgtacc caatttgrgg cmgcmattcc aaatgggtgg 420
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ttcatcacta caaatg 496

<210> 320

<211> 1756

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (1718)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1721)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1733)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1750)
<223> n equals a,t,g, or c

<400> 320

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aagaggaaga tctcagaaat gaagtgtccc mgttcagcac aaaytgccca gaatgcaatg 840
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cagaagatgg accagatcat cgaaggtaac atgaaggccc actttattat ggatgatcca 1320
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gtgcacactt tctaaacagc ttgtgatgca agtgtgagcc tattgtgtta cttgacctta 1680
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ggcttgactn gctcaa 1756
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<210> 321
<211> 588
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (512)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (567)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (574)
<223> n equals a,t,g, or c

<400> 321
gggaggccga ggtgggagga tctctggagc tcgggagttc aagaccagcc tgggcaacat 60
agtgaaccg tctccacaaa taatttttaa aaaattagcc aggcattggtg gtgccgcctg 120
tagtcccagc tactcaggag gcttgggtgg gaggattgcc tgagaccagg aggttgaggc 180
tgcagtgagc cgtgatttca ccaccactcc agcctgggtg agaaagcaag accctatatc 240
aatgaaaaaa aaaaaaaaaa aagaccagct ttgcagccag aagccagagg ataccagagg 300
acagtagggc tcccagggtg ctggttctca gcacacctc catgaatctg cttgctgctg 360
cttcagtgtg gtggccatcg tgctgtgtga caaaccaggg ctgttcacag yttcctcagc 420
ccccagaag gggagttgtt cagggaagag acattttagt ttcattttgc cttgcaattt 480
tctttcttcc ttgcaagggt cttcgggtggg anttcagttc accaaaacaa aaggcttaaa 540
cnggggtttt ttttaaggaga gggtttntta aatncccttt tgccccgac 588

<210> 322
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<400> 322
gacagtcacn gtacnngnant cccgggtcgac ccacgcgtmc gagaagcagg aattcctgaa 60
ttttatgact atgacgttgc cctgatcaag ctcaagaata agctgaaata tggccagact 120
atcaggccca tttgtctccc ctgcaccgag ggaacaactc gagctttgag gcttcctcca 180
actaccactt gccagcaaca aaaggaagag ctgctccctg cacaggatat caaagctctg 240
tttgtgtctg aggaggagaa aaagctgact cggaaggagg tctacatcaa gaatggggat 300
aagaaaggca gctgtgagag agatgctcaa tatgccccag gctatgacaa agtcaaggac 360
atctcagagg tggtcacccc tcggttcctt tgtactggag gagtgagtcc ctatgctgac 420
cccaatactt gcagagggtga ttctggcggc cccttgatag ttcacaagag aagtcgtttc 480
attcaagttg gtgtaatcag ctggggagta gtggatgtct gcaaaaacca gaagcggcaa 540
aagcaggtag ctgtcacgcc cgagactttc acatcaacct ctttcaagtg ctgccctggc 600
tgaaggagaa actccaagat gaggatttgg gttttctata aggggtttcc tgctggacag 660
gggcgtggga ttgaattaaa acagctgcga caacaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaaaaaaaag gggggggggg 738

<210> 323
<211> 876
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (759)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (761)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (786)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (798)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (857)

<223> n equals a,t,g, or c

<400> 323

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agaccagcag ctggccgctg ggctgtgaac gccagggacc gagcggaagt tcccgcccg 60
ncgcgatcgg tgccgcggct tctgcagga agtggctacg cgcgtccctc gggaaaagca 120
ggctttgcaa attggcagcc caagtytcag gggcctgtgc agtgactgat cattaccaac 180
atttcgaagt gagagatgtc acataaagag cgtcatttcg agcttctctt gaaaagttgt 240
aaggtgagct accctgggac tgtattcctg aatggcaatg tgatggcaga gtcctgcagt 300
attaccacct gaggacttgt gcaccagggt tcccacccac ccacttcagg cccttggttc 360
agggatgtgc cgcgcagga aataacagggt gctgtggctc tgctggtttt ggctttcctt 420
ctctgtaacc ttccaatatc tttctccttc caggtagtgt aaaccactta gtaattaatt 480
agttaataaaa ttcattctcat cagcactttt aaaataatgt gctaggccac actgtcatgg 540
accccagata tacagcagca aacaaagcag ccatggtaac ttccctcagg gagcagtcag 600
tccagtggag gagtgcagata tgactcacca cacagatcga aaaatctyca caaattatga 660
gaagaatgct gaggggaagaa agaacatagg tggaccgcgt gctgagtcca ggcttacttg 720
cagagatcta tgctggccag gccctgtgct aggcagcana ngacatggaa taaaatcaaa 780
taaggncact gtgtgcangc accttacggg gtgggaaaag gaacaagccc cattcacagg 840
gttttattaa tttccancct gtgagaaatt gggaac 876
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<210> 324

<211> 1322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1309)

<223> n equals a,t,g, or c

<400> 324

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aattcggcac gagcggcacg agggaaattg agcggagagc gacgcgnttg ttgtagctgc 60
cgctgcggcc gccgcggaat aataagccgg gatctaccat acccattgac taactatgga 120
agattatacc aaaatagaga aaattggaga aggtacctat ggagttgtgt ataagggtag 180
acacaaaact acaggtcaag tggtagccat gaaaaaaatc agactagaaa gtgaagagga 240
aggggttcct agtactgcaa ttcgggaaat ttctctatta aaggaaacttc gtcattccaaa 300
tatagtcagt cttcaggatg tgcttatgca ggattccagg ttatatctca tctttgagtt 360
tctttccatg gatctgaaga aatacttgga ttctatccct cctggtcagt acatggattc 420
ttcacttggt aagagttatt tataccaaat cctacagggg attgtgtttt gtcactctag 480
```

```
aagagttctt cacagagact taaaacctca aaatctcttg attgatgaca aaggaacaat 540
taaactggct gattttggcc ttgcagagct tttggaatac ctatcagagt atatacacat 600
gaggtagtaa cactctggta cagatctcca gaagtattgc tggggtcagc tcgttactca 660
actccagttg acatttggag tataggcacc atatttgctg aactagcaac taagaaacca 720
cttttccatg gggattcaga aattgatcaa ctcttcagga ttttcagagc tttgggcact 780
cccaataatg aagtgtggcc agaagtggaa tctttacagg actataagaa tacatttccc 840
aaatggaaac caggaagcct agcatcccat gtcaaaaact tggatgaaaa tggcttggat 900
ttgctctcga aaatgttaat ctatgatcca gccaaacgaa tttctggcaa aatggcactg 960
aatcatccat attttaatga tttggacaat cagattaaga agatgtagct ttctgacaaa 1020
aagtttccat atgttatgtc aacagatagt tgtgttttta ttgttaactc ttgtctattt 1080
ttgtcttata tatatttctt tgttatcaaa cttcagctgt acttcgtctt ctaatttcaa 1140
aaatataact taaaaatgta aatattctat atgaatttaa atataattct gtaaattgtg 1200
gtaggtctca ctgtaacaac tatttgttac tataataaaa ctataatatt gatgtcagga 1260
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg cggccgctng cgatctagaa 1320
ct 1322
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<210> 325

<211> 342

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<400> 325

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aattcggcag agctaaaaca gattcaaacc ttgaagcaga tgaacgagca actgcaggct 60
gagnacaggg ncctgaccgc agtggtggcc agactctcgg agtccatcga gtcctcggac 120
accagggagc tctagtctck gccctactc tccaactcac tccctcctc cactactcca 180
ggcaggttca gtcttcttgt tagtcccaga agctctgtgc tcatccctc catccgagcc 240
tccatattgca ggttcttgca aagcttggtt atctgcagat ggaagcagcc aggactgaga 300
tcatagaatg gggacatacc agcctaggtc aaggaggca gt 342
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<210> 326

<211> 3690

<212> DNA

<213> Homo sapiens

<400> 326

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ctgggcgact cctcctcctc ctcttctcgc cattgcagtt ggaccagca gcccggcgcg 60
cacgcgtggc ttttgggggc agaccccggc gggctgtggc aggagggcgg cggcggcggc 120
tgcggtcgaa gaaggggacg ccgacaagag ttgaagtatt gataacacca aggaactcta 180
tcacaatttg aaaagataag caaaagtttg atttccagac actacagaag aagtaaaaat 240
gcgtccaatg cgaatttttg tgaatgatga ccgccatgtg atggcaaagc attcttccgt 300
ttatccaaca caagaggagc tggaggcagc ccagaacatg gtgttcccac acggagcggg 360
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cgctcaaagc tgtgtccgac tggatagacg agcaggaaaa gggtagcagc gagcaggcag 420
agtccgataa catggatgtg cccccagagg acgacagtaa agaaggggct ggggaacaga 480
agacggagca catgaccaga accctgcggg gagtgatgcg ggtgggcctg gtggcaaagg 540
gcctcctact caagggggac ttggatcttg agctgggtgct gctgtgtaag gagaagccca 600
caaccgccct cctggacaag gtggccgaca acctggccat ccagcttgct gctgtaacag 660
aagacaagta cgaaatactg caatctgtcg acgatgctgc gattgtgata aaaaacacaa 720
aagagcctcc attgtccctg accatccacc tgacatcccc tgtgtgcaga gaagaaatgg 780
agaaaagtatt agctggagaa acgctatcag tcaacgaccc cccggacgtt ctggacaggc 840
agaaatgcct tgctgccttg gcgtccctcc gacacgcaa gtggttccag gccagagcca 900
acgggctgaa gtcttgtgtc attgtgatcc gggctctgag ggacctgtgc actcgcgtgc 960
ccacctgggg tccctccga ggctggcctc tcgagctcct gtgtgagaaa tccattggca 1020
cggccaacag accgatgggt gctggcgagg ccctgcggag agtgctggag tgcctggcgt 1080
cgggcatcgt gatgccagat gggtctggca tttatgaccc ttgtgaaaaa gaagccactg 1140
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actgcggctc gctgccttcg gccagctcca taaagtccta ggcatggacc ctctgccttc 1260
caagatgccc aagaaaccaa agaatgaaaa cccagtggac tacaccgttc agatcccacc 1320
aagcaccacc tatgccatta cgcccatgaa acgcccattg gaggaggacg gggaggagaa 1380
gtcgcaccagc aaaaagaaga agaagattca gaagaaagag gagaaggcag agcccccca 1440
ggctatgaat gccctgatgc gggtgaacca gctgaagcca gggctgcagt acaagctggg 1500
gtcccagact gggcccgtcc atgcccccat ctttaccatg tctgtggagg ttgatggcaa 1560
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ggaggctgaa gtggatggac agaagttcca aggtgctggg tccaacaaaa aggtggcgaa 1980
ggcctacgct gctcttgctg ccctagaaaa gcttttccct gacaccctc tcgcccttga 2040
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gccacataac cctggcttgc gcatgggagg ccccatgcac aacgaagtgc cccaccccc 2160
caaccttcga gggcggggaa gaggcgggag catccgggga cgagggcgcg ggcgaggatt 2220
tgggtggcgcc aacctggag gctacatgaa tgccgggtgct gggatggaa gctatgggta 2280
cggaggcaac tckgcgacag caggctacag tgactttttc acagactgct acggctatca 2340
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aatttcctcc aactccaaaa cccaaagtgt ccgtgctgtg tccctgtgct tcaactgggt 2460
tctcaaccgt ggcttttcac cgcagcttgt ctgaaactct tagcctgcag aatttaagac 2520
aatggcagtt tttatcgtga tttgcctttg aacttgggtc tattgaagtt cacaataagt 2580
ggaaaacaat tttttcagag aatgtatttt tgtgcagaat tgcacagaat tctagagaca 2640
gcgttgttcg gcatcaaggc aaaagcccac ctttgctttt tatggaaaagc attactttat 2700
ttaagagac agacaatgac gcattttaat ctacctttgt ctttaatttac agcaggtttt 2760
gtatgaattt ttaacctttt aacaaactcc caaatctggg tgatgccttt gacagtgatg 2820
aaaacgattt caccacatct gaatccagag aaaccggctt tttttcttat tgcgagcatg 2880
ttaaacggtt gggaacatgt ggggaattgt atattgcgct gaattaaact ctcccgcctc 2940
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agagtgaact ctcaaaggta tcaaaactgt gcttccatta ttagtgcaag aaacagacag 3060
gctttaaggg gtagatgacg tgaaattttg caagtcttaa ttacagctgc agatgcatgg 3120
gattctggat ttttttgttg ctttttaggt taatgggact ttaaaagtaa ttgaggagaa 3180
agaaccgtga tgttccctgt ttctccagta aaggactggc ttttgcttgg gcagagggtg 3240
tgctgctggg tgtgcagctg ccacagactc caaaggcgta gaagtgttg ccaacacacg 3300
gagtcattct ggctctctgc tgaggccctt gttttctggc aggtgccctc cttggaaact 3360
ggttttggct ctgatcagcg gttctttttg cagcaaagcc tgcactctgtg ttgacttgca 3420

agattttgcg tttattcagg caaaaactgg tcaaaatggt tactacatga tttgttccca 3480
gaggtttgaa acattcagtg aaacttttta aaactttgat tgcattgatg attttttttt 3540
tagaaaagtta ttgtttgaga ataattgtctt tttataaccag gaaaatagtt atcctgaatg 3600
acgttgaaaa cccccctcc cctttatttt tttttaatca atacatgtga aagtaacaaa 3660
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3690

<210> 327

<211> 719

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (701)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (709)

<223> n equals a,t,g, or c

<400> 327

aattcggcag agtgcgacct caacgccagg cggttacttt gctgctcctc ccgctcgcta 60
tgtcaacgtc cactagctgc ccgattcccg ggggccggga ccagctgcc gactgctaca 120
gcaccacgcc gggggggcacg ctatacgcca ctacccccgg aggcaccagg atcatctacg 180
accgaaagtt cctgctggag tgcaagaact caccattgac ccggacaccc ccctgctgcc 240
tccctcagat tcccggggtc acaactcctc caacagcccc tctctccaag ctggaggagc 300
tgaaggagca ggagacagag gaagagatac ccgatgacgc acaatttgaa atggacatct 360
aatccagtg agatgacctg gcatgtggag ttacagaggg atccctcatg ccactgctgc 420
caccacctct tcctggggca tccaanagcc agctggcctc atctaactctg gaagggagtg 480
acttgtagt tccaggcctc ctttagttct gaggcagcta gaccagggat aggagtgggc 540
aacttgccaa gcccttaact ctacttcctc ttcagtctgt ggtactcctc ctaaccctaa 600
accctctatg ctgaggggct ggaactgggg aatggagtaa gtcaccttct gactgcttag 660
taaacattca aagaaaaaaaa aaaaaaaaaa aaaaaaacct ngggggggnc cccgtaccc 719

<210> 328

<211> 989

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (176)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (943)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (968)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (982)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (984)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (986)
<223> n equals a,t,g, or c

<400> 328
gcggtgcgsa ggctctgctc ggatcgaggt ctgcagcgca ttcgggagca tgagtgctgc 60
agtgactgca gggaaagctgg cacgggcacc ggccgaccct gggaaagccg gggcccccg 120
agttgcagct cccggagctc cggcggcggc tccaccggcg aaagagatcc cggagntcct 180
agtggacca cgcagccggc ggcgctatgt gcggggccgc tttttgggca agggcggtt 240
tgccaagtgc ttcgagatct cggacgcgga caccaaggag gtgttcgagg gcaagattgt 300
gcctaagtct ctgctgctca agccgcacca gagggagaag atgtccatgg aaatatccat 360
tcaccgcagc ctgcgccacc agcacgtcgt aggattccac ggctttttcg aggacaacga 420
cttcgtgttc gtggtgttgg agctctgccg ccggaggtct ctctggagc tgcacaagag 480
gaggaaagcc ctgactgagc ctgaggcccg ataactaccta cggcaaattg tgcttggtg 540
ccagtacctg caccgaaacc gaggttattca tcgagacctc aagctgggca accttttcct 600
gaatgaagat ctggaggtga aaatagggga ttttggaactg gcaaccaaag tcgaatatga 660
cggggagagg aagaagaccc tgtgtgggac tcctaattac atagctcccg aggtgctgag 720
caagaaaggg cacagtttcg aggtggatgt gtggtccatt ggggtgatca tgtatacctt 780
gttagtgggc aaaccacctt ttgagacttc ttgcctaaaa gagacctacc tccggatcaa 840
gaagaatgaa tacagtattc ccaagcacat caaccccggtg gccgcctccc tcatccagaa 900
gatgcttcag acagatccca mtgscgcga accattaacg rgntgcttaa wgacctccga 960
tctttcgncc caaaaaaaaa angnnatt 989

<210> 329
<211> 434
<212> DNA
<213> Homo sapiens

<400> 329
ctccagacga atagctttcc agttcttctt acccagggt tagaaagtaa cgattttgaa 60
atgctaaata aagtacttca aactaggaat gtaaacctta taaagaagac tgtattaagg 120

atgccctgc atactattat tccgttggtta caagagctta caaagagggtt acaaggacat 180
cctaatagtg ctgtgctaata ggttcagtgg ctaaaatgtg tggttaacagt tcatgcatca 240
tacctgtcca cgttgcctga cctggtaccc cagctgggga cactctacca gttaatggaa 300
agcagagtca aaacttttca gaaactttca caccttcatg gaaagcttat tcttctaatt 360
acacaagtaa cagcatcaga gaagacaaag ggagcaactt cccctggaca gaaggcaaag 420
ttggtgtatg aagt 434

<210> 330

<211> 696

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (643)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (685)

<223> n equals a,t,g, or c

<400> 330

aattcggcac gagccaccct ggacgaagcc acccccaccc tcaccaacca aagcccgacc 60
ttaaccctgc agtccacca cagcacacg cagagcagca gctccagctc tracggaggc 120
ctcttccgct cccggcccgc cactcgcctc ccgcctggcg aggacggteg tggtgagccc 180
tatgtggact ttgctgagtt ttaccgcctc tggagcgtgg accatggcga gcagagcgtg 240
gtgacagcac cgtaggcagc cggagaatgc agcccaagca gggcctggca tggggcagga 300
cagggtccag ccttttccta acatctgcct gtgccacaac ggccagcagg tgccccatcc 360
tctgcccaca gcaractctg tcccatggct ctccgggcag tagagtgtgt gagtgcagac 420
tggacctgtg gttcatacct tgtcaccacc cgggaagctg aaggccactt yctcccagat 480
ggcctcagca ggaccatcgm cctttctcag agcagagggc caggtataga aaccgcagtg 540
ggcctgcaag ccgcccagc ctycccagca gcctcctaca gagcaggaag agggcgccct 600
gttgaaccct gagtgtttgc agggccagca gaccctgctg ttnccaagcg caccctnget 660
ttcgaacatt aacttcctta acttngggac agtagg 696

<210> 331

<211> 541

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (532)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (541)

<223> n equals a,t,g, or c

<400> 331

```
ccacggtgtc ttctaccacc tggccaagag gctcacgggg atcacgtacc tccgtgtccg 60
cagcctgccc ggagaggacc tgagggcccg tkttagctac aggetgctgg gggtcatctc 120
actgctgcac ctggtgctgt ccatggggct gcagctgtac ggtttcaggc agcggcasga 180
ngccaggaag gagtggaggg tgcaccgagg cctgtytcac cgcaggcctc cttggaggag 240
agagccgttt ccagaaaccc cctgtgcamc ctgtgcctgg aggagcgcag gcacccaaca 300
gccacgccct gcggccamct gttctgctgg gagtgcacat mcgcgtgggtg cagcagcaag 360
gcggagtgtc ccctcctgcc gggagaaagt tccctcccca gaaagctcat ctaccttcgg 420
cactaccgct tgaaccggcg ccggtgttg gccttggaac caaattgaac tctacgggaa 480
ttctgaaacg cccaagattt attctccagg atttaacctt gcttgccaaa antttaaaac 540
n                                                                 541
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<210> 332

<211> 305

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<400> 332

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ggnacggaaa agcgcgagaa ggggctcggg tcccaccacg gagaggcggg agtnagtcaa 60
ctgacaagcg ctggggacag tggcgctcct gtcttgctt tgctgctccc gcccgcctct 120
tccctggctg ggctggcgga ggccttgctg atgaacctga ctgagggtcc cctggcgatg 180
gcagaaatgg accctacaca gggccgtgtg gtctttgagg acgtggccat atatttctcc 240
aggaggagtg ggggcacttg atgaggtcag agattgctgt accgtgatgt gatgcttgag 300
aatTT                                                                 305
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<210> 333

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

<400> 333

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gactgaggaa agctcgctcc ctgcccaggt ttttcattgt tgatcgaaat taacaccagg 120
tggtgaatag agccctset aagggtgctc aggataaatc atttattaaa taggtctgct 180
tatcaggagg ggcgtgaagg ctcccaaaag gaaatgctgg cacctgggcc cagaagccag 240
ggccttytaa ctctggtggg tgattttctt agtgaagttg caccctacaa agggaaatag 300
gccmaagcgg gcacttcaac tggaaggctg rtatcaggcg rttagacagc catggcattt 360
ctggcggtta gtctgggaat ggggttggtg aggaggtggg acttatatng agggacttac 420
cagttccccg tttggatttt ggatg 445
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<210> 334

<211> 317

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (100)

<223> n equals a,t,g, or c

<400> 334

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taaattttta aagatgatgg actagactca agtatttttn aggactgtcc caatcataag 120
tctgaaggat ttcagtgtt atcataacat ttgacatata gttggcactt ggtaggtact 180
gaatcaatga ataggagtta ttggttgctt attcagaggc ttgtgggagt tgcatcccc 240
attgcagaga gccagttggt gaatcagcaa ggtttccatt tatgtgtgtc cctccaccc 300
agtcccttg aggact 317
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<210> 335

<211> 1524

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1441)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1511)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1523)

<223> n equals a,t,g, or c

<400> 335

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actggaaatt ctcttgctag ttaaaaaaca ttccaagatt aatgacactg agttcttcta 180
ctggagagag ttggtttcta aatgcctagc cgagtattct tctcctgaat gttgcaaacc 240
agatcttaag aagttggttt ggatcgtttc aaggcgcaca gcccagaacc tccacaacag 300
ctactatagt gttcctgagc tgccaacgat acctgagggg ggttgttttg atgaaagtga 360
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ggggaatagg tagtttcctg gtttagcccc catctagtca ggaattaata tactggaata 600
cctaccttct atttgttatt cagatcagat ctggcctatt ttcataatta tcctaagcca 660
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gtgccaaagt tgaatatgaa gaacccgagt gttgagatat agtttaagca atctggtggn 1440
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cttaagctaa ntgtttactg ggna 1524
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<210> 336

<211> 306

<212> DNA

<213> Homo sapiens

<400> 336

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tccttatcag atattccttg acccccctat gttaagtgtc ttagccactc attgttaagc 180
caactgctaa aatcttagaa aaatatttca gccttctcct accccatccc ccacccccac 240
aagcttctag cttcttctac ctacagcaaa tgttaaaact ggtcagaagt tatattattt 300
actctg 306
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<210> 337
<211> 291
<212> DNA
<213> Homo sapiens

<400> 337
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acctacctgg cctcaagaga aattattttc cagggcccaa cacattggtg ttttatcagc 120
acctaatga cctggggaaa gcagaatgcc taactccagc ctgtggtatt ttgttatggc 180
aggctgagca gactaataca gactttaata tacagactaa aagtaaaggg atggagaaag 240
ataccctag tcaaaataaa gaaagtagtt atgttaatct aagacagagc t 291

<210> 338
<211> 1264
<212> DNA
<213> Homo sapiens

<400> 338
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gccccagga gttggaaaaa caacattgat ccataaagcc agtgagggtt taaaatcctc 180
tggtgtgcct gttgatggat tttataccga agaagtcaga cagggagggg gaagaatagg 240
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tccacctgga aaacgtgaat gccgagttgg gcagtatgtg gtcgacctga cttcttttga 360
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aaaa 1264

<210> 339
<211> 759
<212> DNA
<213> Homo sapiens

<400> 339
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tgagtaagat aatctggact ggcccccgtc tttgcttccc tgctgctgc tgccccattt 660
gatcaagaga ccatggaagt gtcagagatt cagaatccaa gattgtcttt aagttttcaa 720
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<210> 340

<211> 2639

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1651)

<223> n equals a,t,g, or c

<400> 340

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tgttcttatt gatgactttg tggaatttgc acgccctcaa attgctggga caaaaagtac 180
aacagtgtag cactaaagga accttctaga atgtacatag tctgtacaat aaatacaaca 240
gaaaattgca cagtcaattt ctgctggctg gactgaactg aagatcaatc ctcacaattc 300
agactgaggg ttgagacaaa actttaagga tacatcttgg accatatcgt atttcattct 360
tctaattggtg gtttgggctt gtcttctagt ctgggcccgt ctaaactttt ataattccaa 420
cattgtggat ttcatcttat atctgtggac catcctagtt tattctccca taagtcttag 480
aagctttatg gtgattatth tgaggttttc attctcgcat aaagcacaat gctgtcttca 540
tcagaaaaca gttggcataa gaattaaaca tatgaacatc acaaaaacaat ttataaaaac 600
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gtgtttgagt ctgtgtctgt gagagagcca gagagagtga gagagattga cagagaaagg 2580
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<210> 341

<211> 1824

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1807)

<223> n equals a,t,g, or c

<400> 341

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tgtttatggt ggtataaatc tctgtgcatt gcttaaagtt tagaaataat agtagtttaa 240
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gatgaatcta aagaagtatc attgtgaaca agggaaatgt cagtcaagaa atattccttg 360
gaatataaaa caaagccttg actctgctgg cataggctct agttttcata aactggagct 420
tcacaaatct gtaaaactca taatattaat ggggtgctttt tcagaaatta tagaatagct 480
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gaacaacaaa gcctggatga cagcatgtct gtttacatca tagtgtagtg agtattttta 1740
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ggcggtncgc tcgcatcta gaac 1824

<210> 342

<211> 4531

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<400> 342

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<210> 343

<211> 584

<212> DNA

<213> Homo sapiens

<400> 343

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<210> 344

<211> 778

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 344

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gaatgggaat gtgcagtgc tttatgtttg ggagttggag cagggtatct tttcatcaat 720
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<210> 345

<211> 3740

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<400> 345

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<210> 346

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<400> 346

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gacgtccagc gtgtccctca caggaaaggc ctccaccag ccagcaaag cggcagggat 180
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gcagacggag ccgcggcgca ggggcagcgg gacctcagcc accgctggag agagcggatg 300
ttctgaacgt ttcccctgga cgctgcctgc cacaccagtg gaagctgagt tcatgctgta 360

agacttggct gttcantgag tcattcgaga ttcacagaag cacttacntt gttcaccaga 420
ggacaantgg tgccggtggtt anccca 446

<210> 347

<211> 782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (769)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<400> 347

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atatatggtg tggacagata acttgcatgt ggtttgcaga aaactctgaa aggggtyaaa 720
ttgggagcct atattcaggg ctttttaama gttctactgr taaccaagn antttgatga 780
ta 782

<210> 348

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<400> 348

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gtgagctggc tgttgaacca taggnatctt taaattgtgg cagtattagt actgntacaa 180
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cattttctac aactggagaa ttgatgggat ctgaagggca aatgtatttt ctctttggcc 300
accgtggatt tcctgtactc tgtgtgtttt taatgaaaga gagtttgtga agcaacttac 360
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tgtatttcat tcagagtcc                                     439
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<210> 349

<211> 2356

<212> DNA

<213> Homo sapiens

<400> 349

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ccgcgcggcg ccgctgccgt tggatgatctg gcatgggatg ggagacagct gttgcaatcc 180
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<210> 350

<211> 1219

<212> DNA

<213> Homo sapiens

<400> 350

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gcctggccgg gacaccacat tctgtaacca gggaactgaa aacagaagag cttgttcaca 180
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<210> 351

<211> 408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<400> 351
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<210> 352
<211> 1283
<212> DNA
<213> Homo sapiens

<400> 352
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<210> 353
<211> 3229

<212> DNA

<213> Homo sapiens

<400> 353

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<210> 354

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (505)

<223> n equals a,t,g, or c

<400> 354

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<210> 355

<211> 742

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<400> 355

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<210> 356

<211> 1695

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 356

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<210> 357

<211> 928

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (928)

<223> n equals a,t,g, or c

<400> 357

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<210> 358

<211> 1374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1374)

<223> n equals a,t,g, or c

<400> 358

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<210> 359

<211> 4152

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<400> 359

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gtttcaagtc tgggttctg tgtccactca cccaccac ccccaaaaat cagacaaatg 3420
ctactttgtc taacctgctg tggcctctga gacatgttct atttttaacc ccttcttggg 3480
attggctctc ttcttcaaag gaccaggctc tgttctctt tctccccgac tccaccccag 3540
ctccctgtga agagagagtt aatatatttg ttttatttat ttgctttttg cgttgggatg 3600
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tattccagac ttgtcactga ctttcttct ggagcagggt gctagaaaaa gaggctgtgg 3840
gcaggaaaga aaggctcctg tttctcattt gkgaggccag ctctggcttt tctgccgtgg 3900
attctcccc tgtcttctcc cctcagcaat tcctgcaaag ggttaaaaat ttaactgggt 3960
tttactactg atgacttgat ttaaaaaaaa taaaaagatg ctggatgcta acttgatact 4020
aaccatcaga ttgtacagtt tgggtgttgc tgtaaatatg gtagcgtttt gttgtgtgtg 4080
ttttttcatg cccatacta ctgaataaac tagttctgtg cgggtamaaa aaaaaaaaaa 4140
aaaaaaaaaa aa 4152

<210> 360

<211> 1156

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<400> 360
gggtccgagac acagtcgtgg gcaccatggg cctgaaggcc acggggccgnc tctgcaccgt 60
ggctaaggca agggggctgc gagcctgcag gggagagctg agggacacca tcctagactg 120
ggaggactcc ctgcccgacc gggacctggc actcgccgat gagccagcag gaacgccgac 180
ctgtccatca cgctgggtac atcgctgcag atccggccca gcgggaacct gccgmtggct 240
accaagcgcc ggrkaggccg cctggtcatm gtcaacctgc agcccaccaa gcacgaccgc 300
catgctgacc tccgcatcca tggctacgtt gacgaggta tgacccggct catgaagcac 360
ctggggctgg agatccccgc ctgggacggc ccccggtgtg tggagagggc gctgccaccc 420
ctgcccgcgc gccaccccc aagctggagc ccaaggagga atctcccacc cggatcaacg 480
gctctatccc cgscggmccc aagcaggagm cctgcgcccc gcacaacggc tyararcccg 540
ccagcccaaa acgggagcgg cccaccagcc ctgcccccca cagaccccc aaaaggggtga 600
aggccaaggc ggtccccagc tgaccagggt gcttggggag ggtggggctt tttgtagaaa 660
ctgtggattc ttttctctc gtggtctcac tttgttactt gtttctgtcc cygggagcct 720
cagggtcttr aragctgtgc tccaggccag gggttacacc tgccctccgt ggtccctccc 780
tgggctccag gggcctctgg tgcggttccg ggaagaagcc acacccara ggtgacagct 840
gagcccctgc cacaccccag cctctgactt gctgtgttgt ccagaggta ggctggggcc 900
tccctggtct ccagcttaaa caggagtga ctccctctgt cccagggcc tcccttctgg 960
gccccctaca gccacccta cccctcctcc atggggccctg caggagggga gaccacctt 1020
gaagtggggg atcagtagag gcttgcactg cctttggggc tggagggaga cgtgggtcca 1080
ccaggcttct ggaaaagtcc tcaatgcaat aaaaacaatt tctttcttgc aaaaaaaaaa 1140
aaaaaaaaaa aaaaaa 1156

<210> 361
<211> 376
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<400> 361

```
tgggaagtga tatttgggag ctaattgagg cctanggtga aaaaggaaat agcttcagat 60
waaaaytaga aagaagcttt ctgagaaact gctttgtgat rtgtgcattc atctcacaga 120
ggtaaattctt tcttttgatt cagcagtttg gaaacctggc taacatggtg aaccgggtgt 180
ctactgaaaa tacaaaaaat tagccaggtg tggtaggcaca atgctgtaat cccagctact 240
caggaggctg aggcaggaga atcgcttgaa cccgggaggt gggagggttac agtgagccaa 300
gtttgtgccca ctgcattcca gcctgggctt atagagtggg acttccgtct tcaaaaaaaaa 360
aaaaaaaaaa nctngn 376
```

<210> 362

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<400> 362

```
ccctaagcca tttttgaaga gaggacctgc cctagcttta tgacttaaga ccatgactat 60
gcatcttaag ttgcccctct gactgggcag ctttctcctg aacacagtga ggaatgctaa 120
gttacatggt ccagtaamtg agtggatacc ctgagcccc gcacccact ggctgctatg 180
cagggataag tccatgcacc tgtggatggc agtggttgag ctgggttctct ataaaagtat 240
ccagtgccca gacctttgtt cacacatgca tgtaaattta ctgggaaaac tctagagacc 300
aatgttcttt cttccacaga aatctggcct agcagtctat tcttaaattg ctctttgtgt 360
gtaagacaca tctgtttgat accccactct gccctgactt ttaggcaaat ccgttaggac 420
aggaaccact attttctttc cttccctttg aatcatcttt taaagcagca gaggcaatgt 480
tkggcagagg tccacattgg gaaagttagt gcatcanga 519
```

<210> 363

<211> 1385

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1340)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1360)

<223> n equals a,t,g, or c

<400> 363

```
acggctcgat tcccggtcga cccacgcgctc aggacggctc cggaccgcgc agttagcgcc 60
gcctggcctg ggccggaccc ggtcaggggtt ctcaagctgt cgtccctatg gggctgtgtt 120
ttccttgctc cggggagctc gcgcctccca cgccggacct ggaagagaaa agagcaaagc 180
ttgcagaggc tgcagagaga agacaaaaag aggctgcac tcggggaatt ttagatgttc 240
aatctgtgca agaaaagaga aagaaaaagg aaaaaataga aaaacaaatt gctacatccg 300
ggccccacc agaaggtgga cttaggtgga cagtttcata aagcataaca tgagtagaag 360
aatctactgc caataactgt ttattatctg caatcaagtg ggcttcatca atttaatttc 420
ttctctttga gtaaataag attcagactt tgtaataatta ttgcccttaa gtgcaatgct 480
aaaaaaacgt tgattttcaa gcttagagaa tggctagact tttcattaaa tactgatttt 540
cctacatttg ctcttctgca gttagtgggt gatttgctat ttttcttagt agttaaaaaa 600
tggaactaaa tagtgaatat acatacactg catgtaaaca ttctgcatat acctctaaga 660
ttaaatttcg cagttgtctt ttcacccctt ataaaatgat ctaactactt atatttgtgc 720
tgcacgcgct tacatctgtt tttatttcac tatgaagatg tttgattaaa cttatggact 780
tagtgccctt aaactgatca tcagggagaa tcttgaaaaa atcatttgaa gggctgatgt 840
gaaggagcac tgtaaatttt tataacttag taatgagtat tcttaggcag atgtaaaatt 900
ttttccaatt tatttttatt tatgtagctt ataaaattaa cataccctgt tttactttat 960
gataaaggat tttttgtttg ctgaatttaa aattatatat tagtgatacc atcagagggc 1020
agtgatgttc tattgtatat taaattcagc tctgtaagga tctttgtagt aattgaatga 1080
gttaactaa taatctggat gggttataat gagtagtaat atatttgtcc atatttcata 1140
agtagtgkta atcttgkga cttattagag gaacgatcat aaggatttat acaggatgtg 1200
gaaactgcgg aaggcaagtt atkgaatgta tgraaaaaaa catgtagggg actgkacttt 1260
accaaaaggg tctacttcca ggatattaaa aatattaggg gtaattctat taccatgccn 1320
aggctcttaa cccttaaccn ttttgttccn tagggaaccn ggattttatg gccttttttg 1380
gtttc                                     1385
```

<210> 364

<211> 977

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (962)

<223> n equals a,t,g, or c

<400> 364

```
aacaanacct ccataacctt cccnnaaatg aaaaccccc caaagtataa gccgccatat 60
tttccggata tttttggttg aattcccca aagggaatc cacagggtg ttcgaaata 120
ttgggggaac actgttttct ctgcatcatc ctgcatttgc tccccaagca atgtagaggt 180
gtttaaaggg ccctctgctg gctgagtggc aatactacaa caaacttcaa ggcaagtttg 240
gctgaaaaca gttgacaaca aagggccccc atacacttat ccctcaaatt ttaagtata 300
tgaaatactt gtcattgtct tggccaaatc agaagatatt catcctgctt caagtcagct 360
tcagaaatgt tttaaaaggg acttttagctc tggaactcaa aatcaattta ttaagagcca 420
tattctttta aaaaaaaaaa gctggataat attmtctgta atatttcagt cttttacaag 480
ccaaatacat gtgtcaatgt ttctagtatt tcaaagaagc aattatgtaa agttgttcaa 540
tgtgacataa tagtattata attggttaag tagcttaatg attaggcaaa ctagatgaaa 600
agattagggg cttccacact gcatagatta cacgcacata gccacgcata cacacacaga 660
cacacagatg tggggtacac tgaacttcaa agcccaaagc aatagaaaca ctttttctgg 720
ctagcagaaa aaaacaaaac aaaactgttg tttctcttct ttgctttgag agtgtagagt 780
aaaagggtat ttttcgaatt atttttatat tatttttagct ttaattgtgc tgtcgttcat 840
gaaacagagc tgctctgctt ttctgtcaga gatggcaagg gctttttcag catctcgttt 900
atgtgtggaa tttaaaaga ataaagtttt attccattct gtgtgaatgg tttgagcagt 960
gngaaaagga caaaaaa 977
```

<210> 365

<211> 964

<212> DNA

<213> Homo sapiens

<400> 365

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gttcggcaca gaaagggaga tgggtagcat ctttttgatt aacatttggg gcctgatagg 60
ggaaatggtg aagcaatgga aaagaacaga caactaatga tttgcttcta tgtccagaat 120
attttacctt taaaaaaatg tcattggcac cataaataag gactgtgaga gactgtttta 180
aagctgtgaa agtctgaaac ctataagcca aggtgttccc tgcttaaact tattgctgtt 240
cccacaaagg actaagcctg ttcataagtt accaaagtgt ccattttgga gatggaaatt 300
gacgaggagg gaaggtcttt tattggagag tatacagtag aagcagatca ttctgcctta 360
gaggtgctaa ttcccgaaat tagaagacct tttcttttcc agtaacgaag ttataaata 420
cagcttgctt atccaagcca ctggctgagg tgttaggaag aggaagaggg tggtagagga 480
ggtaagacag tagggaaaga caagggccca tgctcttagt ggggaaaact cttggagccg 540
tttactttga gctttgaaca ctgaaaccat tgttggcagg gttcagtcac tgacagcaca 600
agtttctact aattgatcca agagttagt gatttcaaaa gccttgggtc caggagaaga 660
ttaaactttc atattgggca gtggttctact ttaaaacaca cacatacaca cacaaaacaa 720
ttttttaaga aatcctaata agtaacatac ccaaaatgct ctgtcttgag tcatgagaac 780
catcagttct tgatattgtc tagacttgca tctagagcta cgttgtaaaa ttcttttagg 840
catgtgttag atttctgtgt aaactttgtt taaatgtaaa cttcatacta cattgtcagt 900
ttttgtctta ataaaactat agatttataa aaaaaaaaaa aaaaaccgcg gggggggggc 960
ccgg 964
```

<210> 366

<211> 1297

<212> DNA

<213> Homo sapiens

<400> 366

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gtggcttacg cctgtaatcc cagcactttg ggaggccgag gcaggcggat cacgaggtca 60
ggagttcgag accagcctga ccaacatggc gaaacccgt ctctactaaa aatacaaaaa 120
```

```
ttagctgggc gttatggcgg gcgcctgtaa tcccagctac ttgggaggct gaggcagaag 180
aatcgcttaa acccaggagg cggagggttg agtgagctga gatcatgcca ttgactcca 240
gtctgggcga caggagcaag actctgtctc aaaaaaaaaa atcattcttt ttagtccttag 300
cacctactta aggatccact tttagggtc acccacattt gtttctagat ttaccctgc 360
gctagagtaa gcactttatc tccagaactg agagcaaagt taacaaatct cacccttct 420
ctcctgcaaa ttagtggaaca gactccctgg aacatgtttg gggcttccac ctagggccac 480
ctagtgttat ctctgggtct ttacttggtc agatgtttat tctacattgt tcccaggaa 540
cagagtatga gctcattgat gcagaccgat tctaattgcc aggccctaata ttgcagacta 600
actctcataa taaacagagg cccatagttg tttatgaact gcttatccct taaaggagca 660
caagaacccc tccctgccct ccttgggcac cctgcctcca ggagatggag gcacgtgata 720
agacaaaaga ctgcaccaac tcaccctgac acagttacat agtcaactgag agtggggaag 780
atgggacagc ccacatgctg cataagatgg gccttatgca gcaggcccag gtcgtcatta 840
aggagtgacc ccttctctgt aacctgcact ttgggatggg agaagtttct ttacctgctg 900
acaggtttgg tggcactgct gggtaccctc gggccctgaa tggagctaaa atcacatttg 960
gtaccagcag cacctatccc aagtgtgatc cttcatccca acactccctc ttggagctgt 1020
tccctgggta gagctagcat gccagcagct tctgcaggct ccaaaccag gccagaagcc 1080
agaccagggc ctgctgcctg catctgcatt cctccttcc agtggtcctt agaacagaca 1140
tttaggtatc tcaggtcctt tctaagtgtc ctttctctat gtatgcattt ctttttttg 1200
tctttactat gcactttagc ttataaagcc aattaaaaac gatgattgag aaaaaaaaaa 1260
aaaaaagggc ggcgctctta gaggatccaa agcttac 1297
```

<210> 367

<211> 785

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (753)

<223> n equals a,t,g, or c

<400> 367

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gcggctggtt tcttggtgag cccgggtccc tcaaggccgg aaagaaagtc gggcttctct 60
agcccctgga ggactcgact cactggtgag cgatttaggt ccggagaggc gttgtgaggt 120
gagctttttc agaagcgcga tcccaggaca cgtcggggaag caagcatccc cagagctgct 180
tggaagagg accaaagacg tctaaaaagt catttggaat tatctctaaa tatttggtac 240
catgtataag ctgctaaaga gaaattgggc ccaacaaaac taattgaata attgaggcag 300
atttgtgtgt atcatcaaat tctatccaga agttgaagaa tctgaattta aagatttgt 360
gcatttaata agaggatgac ctttcagttt aatttcacta tagaagacca tctggaaaat 420
gaattaacac ccattagaga tggagctttg accctggatt cctcaaaaga gctgtcagtc 480
tcagaaagtc aaaaaggaga agagagggac agaaaatggt ctgcagaaca atttgacttg 540
```

cctcaggatc acttgtggga acataagtca atggaaaatg cagctccctc tcaagacaca 600
gacagtccac tcagtgcagc cagcagttca aggaacttgg gagccacatg ggaaaacagc 660
cctccttgag agctggccaa aggrgcmgtg tatgccttaa aggnntttaa gaagrtgttt 720
aggaaaatwa aagtycttag gaaacnttta ccnggggtttt ccmgyctgtt taagttwttc 780
rgtta 785

<210> 368

<211> 920

<212> DNA

<213> Homo sapiens

<400> 368

ggcagagctc atgccatcac agtatctgtt gcaaatraaa aggcactagc taagtgtgag 60
aagtacatgc tgacccacca ggaactagcc tccgatgggg agattgaaac taaactaatt 120
aaggggtgata tttataaaac aaggggtggt ggacaatctg ttcagtttac tgatattgag 180
actttaaaagc aagaatcacc aaatggtgtt ctgtggctgt ggagatgaga gcaggatccc 240
agctgggacc tggatatcag catcacgcac aacccaagcg caaaaagcca tgaactgaca 300
gtcccagtac tgaaagaaca ttttcatttg tgtggatgat ttctcgaaag ccattgccaga 360
agcagtcctc caggtcatct tgtagaactc cagctttgtt gaaaatcacg gacctcagct 420
acatcataca ctgacccaga gcaaagcttt ccctatggtt ccaaagacaa ctagtattca 480
acaaaccttg tatagtgtat gttttgccat atttaatat aatagcagag gaagactcct 540
tttttcatca ctgtatgaat tttttataat gtttttttaa aatataatttc atgtatactt 600
ataaactaat tcacacaagt gtttgtctta gatgattaag gaagactata tctagatcat 660
gtctgatttt ttattgtgac ttctccagcc ctgggtctgaa tttcttaagg ttttataaac 720
aatgctgct atttattagc tgcaagaatg cactttagaa ctatttgaca attcagactt 780
tcaaaataaaa gatgtaaatg actggccaat aataaccatt ttaggaagggt gttttgaatt 840
ctgtatgtat atattcactt tctgacattt agatatgcca aaagaattaa aatcaaaagc 900
actaagaaat amaaaaaaaaa 920

<210> 369

<211> 834

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (533)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (831)

<223> n equals a,t,g, or c

<400> 369

cctagaacgc tttgcgtccc gacgcccgcg ggtcctcgcg gtgcgcaccg tttgcgactt 60
ggtacttgga aaaatggaca aggattgtga aatgaaacgc accacactgg acagcccttt 120
ggggaagctg gagctgtctg gttgtgagca gggctctgcac gaaataaagc tcctgggcaa 180
ggggacgtct gcagctgatg ccgtggagggt cccagccccc gctgcggttc tcggagggtcc 240
ggagcccctg atgcagtgcg cagcctgggt gaatgcctat ttccaccagc ccgaggctat 300
cgaagagttc cccgtgccgg ctcttcacca tcccgttttc cagcaagagt cgttcaccag 360

```
acaggtgtta tggaaagtgc tgaaggttgt gaaattcgga gaagtgattt cttaccagca 420
attagcagcc ctggcaggca accccaaagc cgcgcgagca gtgggaggag caatgagagg 480
caatcctgtc cccatcctca tcccgtgcc cagagtgggc tgcagcagcg ganccgtggg 540
caactactcc ggaggactgg ccgtgaagga atggcttctg gcccatgaag gccaccggtt 600
ggggaagcca ggcttgggag ggagctcagg tctggcaggg gcctggctca agggagcggg 660
agctacctcg ggctccccsc ctgctggccg aaactgagta tgtgcagtag gatggatgtt 720
tgagcgacac acacgtgtaa cactgcatcg gatgcggggc gtggaggcac cgctgtatta 780
aaggaagtgg cagtgtcctg ggaaaaaaaa aaaaaaaaaa aagaaaaaaaa naaa 834
```

<210> 370

<211> 947

<212> DNA

<213> Homo sapiens

<400> 370

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tggcaataga atagctggat acactaatct ctacaagggt tcaggcagga gattcaccgt 60
tccccagtc caggggcagg agagaaatct gtaaaggac agatgcacca tctttatttc 120
aaaagaaaaa gctccctcag attgtgttac taggagtctc ttttgtgaca ttactgasc 180
tttctcccca atcttacctt cctattggct actttttaa taaaaataaa cattttaggc 240
taatatgaca aaaatgagat aaaatcttaa aaacattgta ctagtgtaca gttactaaaa 300
tgtgcttact acaaaacagt aaaatatttc actctgtaa tcatcactaa gtagttattc 360
tgtcctgttg attatgagcc tccaaaaatg tttaatgctt gamggatggt ttgggaggca 420
gggaatcctt wtcttaaaac ractktaatg aggcataatg tacatatcat aaaacaccca 480
tktcaagtgt acatytcagt gatttttagta acttcctca gtggtgtagc tgtarctatt 540
actcagtyt agawcatktt tatcccccca ataagatctt catgctcwt tacagttaac 600
ctgtgcttac ccagcaaca ctaatctact tctctataaa ttgcctttct ggcagtcaat 660
catggaatca tcatagtggc cgtggtctgg cttgtactag aatgtttgag gttgtcagca 720
gtacgtctgg actgtcgata tgcggggaac ggtgtgtggc cattgctgcg ggcttacatg 780
gtcatctgtc tacgactcgc gtgctatgga cgtggtcaaa ccacggggag cgtctccgcg 840
tcgagttttg cttgtgtagg ggcactggtg cagtttggtg ggagaggccg gtccccgggg 900
aaactctgga gactttgcga gagccgctct agcgcctcct ggtggct 947
```

<210> 371

<211> 2340

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2301)

<223> n equals a,t,g, or c

<400> 371

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ggcacagcag gaactccagg ttctgctggc cgtggcatcc tctctccarg tctgctccct 60
taccggagct asgataasgt agcatgartg acacctgaga ttagaggctg gggctcactg 120
caggctgtgg agaggtcatg ctggtccaca ggaacacttg gcagtgtctt cgtagacccc 180
```

tcggtgatgt ggaatggaca ggtgcctcgc aagagagcaa gcacgttcat aacaaaacag 240
caacacaaaag acatgttaag catgtttatt tatttgccg tttttgtttt tttacttgag 300
ctgtggtcac agctgnccag gtacctaacg aagtcagttg ggtacagcag gacacgccac 360
cattccaggg tagctggtac cgccagaaac aggagtgggt cttgtcctgt tgcaggcaca 420
ctgcagtggg tttcctgcag ctctccaaca aacgcctgag tcacaggcca gagctgcctt 480
ggatgtgtgt taagtccaaa acttcttctc tgggctacct atcttccttc atgaagcagg 540
tgctcaggac ccggaagaat catctacctc ccagctttgt gagacagaaac caagtaaaag 600
gaaacatgct agaaaacgtg cctagagaag acacttcaac ctttgcctta tccaaccctt 660
cttcagagaa aggtgtccca tggccccaac aagaactgcc aagttttggg gaggagtaac 720
accctggcat gacattcctt ctctttcctg gccctcaacc acttccttcc tttggctctt 780
aagacctagc aggttctgtg aactctcagg ccttgccag cactagttag gggaggtcag 840
gtggtcaatg tcctggtgat tttatgagac tgccccactg agaaaactta cttacttcag 900
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<210> 372

<211> 1575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (58)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1492)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1548)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1556)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1559)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1565)

<223> n equals a,t,g, or c

<400> 372

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<210> 373

<211> 1878
<212> DNA
<213> Homo sapiens

<220>
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<222> (1717)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1764)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1771)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1773)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1810)
<223> n equals a,t,g, or c

<400> 373
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<210> 374

<211> 846

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (703)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (747)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (786)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (797)

<223> n equals a,t,g, or c

<400> 374

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tgctgtttgg aaaggtggca aaggatagca gcaggatgct gcagccgtcc agcagcccg 120
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tgtatcaagc tcatccccaw tgcccgnctc taacccgctg cgaatgcamt gcacccgtg 780

cctgangsyg cttctynggg gaagcttcgg ggggsccttc atcccgggtgg ctggcctttc 840
aatcct 846

<210> 375
<211> 657
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (618)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (634)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (646)
<223> n equals a,t,g, or c

<400> 375
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gtgaatgtca gatccattgc tgaaatgggg gcttatgtca gcttgctgga atacaacaac 240
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<210> 376
<211> 695
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
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<222> (103)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (647)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<220>
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<222> (662)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (680)
<223> n equals a,t,g, or c

<400> 376
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caagktaatg tcatcagtta aggcaaggac tggccatttw crcttctttt gtgggtggaat 360
gtcatcagtt aaggyrgggc agggcatwtt cacttctttt stgattcttc agttacttca 420
ggccatctgg gcgtrtacgt gcawgtcata ggggatgcga tggcttggct tgggctcaga 480
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attcctagtg ctgtgtgggc acttagcaaa taattttaga acaaatgaat acactttgcc 600
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cnccatggac agtaatgtan ggatttaaag gcagg 695

<210> 377
<211> 3610
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<400> 377

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<210> 378

<211> 223

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<400> 378

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agaagttggt ctccctaatac attgaaaaac catgaattca taktgatggt ttcccaaagc 180
ccaaaccaac ccaaccaaac atgttatttg gtcctccttg gaa 223

<210> 379

<211> 809

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<400> 379

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ggggatccgc ggccatgacg gtgccggtcc gcggcttctc gctgctccgc ggccgccttg 120
gccgagcgcc ggcgttgggc agaagcacag caccctccgt aagggcaccg ngagagccccg 180
gragtgcgtt ccggggcttt cggagcagcg gtgtgaggac cagcagagag aagagattcc 240
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<210> 380

<211> 2550

<212> DNA

<213> Homo sapiens

<400> 380

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<210> 381

<211> 1268

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1259)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1262)

<223> n equals a,t,g, or c

<400> 381

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tctcctcatt tcggtgcatg tcctttctgc agctgccttt cagcacagggt gggtccactg 180
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aaaaaaaaa 1268

<210> 382

<211> 854

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (794)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (807)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (817)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (835)

<223> n equals a,t,g, or c

<400> 382

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ccctatcccc atggtgcccc ttggtgggat ccagatgggt cactccatgc cgccagccct 180
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<210> 383

<211> 1091

<212> DNA

<213> Homo sapiens

<400> 383

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cctctcattt tatcagatgt gatgactgaa gccaccaca aatatgacca ctctgaggct 180
acaggatcct caagctggga tatccaaaat tctttcagaa gagagaagct ggaacaaaaa 240
tccccagatt cgaagacact acaggaagat tcacctggag tgagacaaag ggtctatgag 300
tgccaggagt gtggaaaatc cttccggcaa aaaggtagtc taacgttaca tgagagaatc 360
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aatcttggtt cacatcaacg gatacacacg ggagagaagc cttatcagtg caaggagtgt 480
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<210> 384

<211> 1029

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1014)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1015)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1026)

<223> n equals a,t,g, or c

<400> 384

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gcagaagagc ccaagaagaa gaagggaaaa gtggaagtga gagccattaa tttggggaca 360
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aaaaanaag 1029

<210> 385

<211> 583
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (551)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (574)
<223> n equals a,t,g, or c

<400> 385
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gcagaaagac aggaagccca agagggtcaac ctggaggttt aatttggacc ttactcatcc 120
agtagaagat ggaatttttg attctggaaa ttttgagcaa tttctacggg agaagggttaa 180
agtcaatggc aaaactggaa atctcgggaa tgttggtcac attgaacgct tcaagaataa 240
aatcacagtt gtttctgaga aacagttctc taaaagggtat ttgaaatacc ttaccaagaa 300
ataccttaag aagaacaatc ttcggtgattg gcttcgagtg gttgcatctg acaaggagac 360
ctacgaactt cgttacttcc agattagtca agatgaagat gaatcagagt cggaggacta 420
ggcaaaggct ccccttacag ggctttgctt attaataaaa taaatgaagt atacatgaga 480
aataccaaga aattggcttt tagtttatca gtgaataaaa aatattatac tcttgaaaaa 540
aaaaaaaaaa ngcgcgccgt tttaaagatc ctnaggggc caa 583

<210> 386
<211> 2410
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2167)
<223> n equals a,t,g, or c

<400> 386
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<210> 387

<211> 689

<212> DNA

<213> Homo sapiens

<400> 387

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<210> 388

<211> 798

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (215)

<223> n equals a,t,g, or c

<400> 388

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gccaaaaagg ctgggggtac gcctcgtaag gcktccggtc ccccggtgtc agagctcatc 180
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gaaccaaacc taagaagcca gttggggcag ccaagaagcc caagaaggcg gctggcgggcg 480
caactccgaa gaagagcgct aagaaaacac cgaagaaagc gaagaagccg ccgcgggccac 540
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tgccaaaagt gctgctaagg ctgtgaagcc caaggccgct aagcccaagg ttgtcaagcc 660
taagaagcgg cgcccaagaa gaaatagcga acgcctactt ctaaaaccca aaargctctt 720
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<210> 389

<211> 1691

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (436)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1575)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1636)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1651)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1664)

<223> n equals a,t,g, or c

<400> 389

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ttttctcatt tttaaacagc acatatttat taagagaaaa aaagtaattt atgactattt 1440
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caagggggaa gggcctgcag cctccgctcc tcaaatgtct gcaactgaacc agttccagtc 1560
actaattgag ccaancaagg ccaggaagga attcaaaaca tggtctggcc aagcacaaga 1620
acatccccc an tgggantgga acacaatgct ncccaaaaac ctgnctttcc tggccttccc 1680
caacaactgg g 1691
```

<210> 390

<211> 454

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (444)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<400> 390

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gcgacggcgc tggcttgccc ggctgggaga gggcgtaagc aaaatgatgc ttcaacaccc 60
aggccaggtc tctgcctcgg aagtgagtgc ttctgccatc gtcccctgcc tgtcccctcc 120
tgggtcactg gtgtttgagg attttgctaa cctgacgccc tttgtcaagg aagagctgag 180
gtttgccatc cagaacaagc acctctgcca ccggatgtcc tctgcgctgg aatcagtcac 240
tgtcagcgac agacccctcg ggggtgtccat cacaaaagcc gaggtagccc ctgaagaaga 300
tgaaaggaaa aagaggcgac gagaaagaaa taagattgca gctgcaaagt gccgaaacaa 360
gaagaaggag aagacggatg cctgcagaaa gtgagtgcct tctaacctta cccttctctc 420
gctangcctg tctttaccaa cttnatgtgg ntat 454
```

<210> 391

<211> 807

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (586)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (735)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (805)

<223> n equals a,t,g, or c

<400> 391

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caagctctaa tacgactcac tatagggaag gctggtacgc ctgcaggtag cgggtccggaa 60
ttcccggggc gaccacgcg tccgggcgga aaaccgaagt tggaagtgtc tcttagcagc 120
gcgcggagaa gaacggggag ccagcatcat ggcagaacag gatgtggaaa acgatctttt 180
ggattacgat gaagagggaag agccccaggc tcctcaagag agcacaccag ctccccctaa 240
gaaagacatc aagggatcct acgtttccat ccacagctct ggcttccggg actttctgct 300
gaagccggag ctctgcggg ccacgtgga ctgtggcttt gagcatcctt ctgaggtcca 360
gcatgagtgc attccccagg ccacctctgg catggacgtc ctgtgccagg ccaagtcagg 420
gatgggcaag acagcggtct tctgtctggc caccctacag cagattgagc ctgtcaacgg 480
acaggtgacg gtcctgtgta tgtgccacac gagggagctg gccttcnaga tcagcaaggaa 540
```

atatgagcgc ttttccaagt acatgcccag cgtcaagggtg rgtcyntcgg ccagactgga 600
ccaggcgcca cttggkttct gmagctttgk tagcctcggc tctggcccar ccagcattta 660
ccaagcttgg caagggcagc tgcctttgaa ggtttgcagt ggtttttgct ccttaaaagc 720
ctgattgaat tatgncatgg ctcccagggg cctgcgccag ttcccagcct ggggctgcct 780
ttgaaatggg aacccccggga aggcncct 807

<210> 392

<211> 927

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (916)

<223> n equals a,t,g, or c

<400> 392

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cactcaagag caagctcagg cgaggaaacg agacctctt cgttccttct agaaggtctg 120
gaggacgtag agttattgaa aatgcagatg gttctgagga ggaaacggac actcgagacg 180
cagacttcaa tggaaccaag gccagtgaat aagcaacttt ctacagtttt gcaccacggc 240
aagaaaacca aaaacccaaa caaacaacaa aaaaaaaccc aacaacaacc cagaacaaag 300
caaaaccag cagactgtac ttagcattgt ctaaattccat tctcaaattc caaatatcac 360
agacaccctt cmcacaggaa acttcgcagt gatgcaccag gcgaggaaac gagacctctt 420
tcgttccttc tagaaggtct ggaggacgta gaagttattg aaaatgcaga tggttctgag 480
gaggaaacgg aactcagaga cgcagacttc aatggaacca aggccagtga ataagcaact 540
ttctacagtt ttgcaccacg gcaagaaaac caaaaaccaa aacaacaaca caaaaaaac 600
ccaacaaca cccagaacaa agcaaaaaccc agcagactgt acttagcatt gtctaaatcc 660
attctcaaat tccaaatata acagacaccc ctcacacaag gaataataaaa accaccacc 720
tccagcctgg gcaacgtagt aaaaacctca tctatacaag attttaaaaa taagctgggc 780
gtgggtgtac acacctgtgg tcccagctac tagggaggct gagccaggaa gaacgstyca 840
gcccaggayt tcgrggctgc aatgagctat aattgcatca ttgcactcca gcctgggcaa 900
cagagaccct gttttnaacc accacca 927

<210> 393

<211> 1023

<212> DNA

<213> Homo sapiens

<400> 393

ggcacgagcc accacgaggc caccaggggtg actgcgggat tccgatctgc gccggagctg 60
cgatgctaga gcactcttgc cccccccacc ccacggacgt gttgcagtga tatcagaatt 120
ttgcgtgcgg tttaccctgt tttaacctct ttgcgtctcg cttctgaatc gtatccactt 180
gagcatcact agactgatct attttaacac tgggtggggg cagcgaggac atggttttta 240
actttaaaat gaaaatgtga aactaggaat gttgctgtga gacccttgg acaaacagat 300
ttttgactg gggatagaac ttgagcaatt tctgtcttgg cctcgccact gacgtccctt 360
ctttcctgtg gggacaggat ggacagattc ctggtgaaag gggctcaagg gggccttttg 420
aggagcagg aggagcaaga gccaaactgga gaagagccag ctgtgttggg aggagacaaa 480
gaaagcaca ggaagaggcy caggagagag gccccaggga atggaggcca ctcagcaggc 540
cctagctggc ggcacattcg ggctgagggc ctggactgca gttacacagt cctgtttggc 600
aaagctgagg cagatgagat tttccaagag ttggagaaag aagtagaata ttttacagg 660

ataaagatgg ctgtgaccac atcgggggagc accgagatga tgaaagagaa ctggcccctg 720
ggagcccat tgccctctgtc tccttcggtg cctgcagaga ctttgtcttc cggcataagg 780
attcccgtgg gaaaagcccc tccaggaggg tggcgggtgg caggctgccg ctggcccacg 840
ggagcttact aatgatgaac caccgacca acacgcactg gtaccacagt cttcccgtga 900
gaaagaagg tctggctcca cgggtgaatc tgacttttcg taaaattttg cttactaaaa 960
aataaaaaa tttttaacag ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
aaa 1023

<210> 394

<211> 822

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (550)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (788)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (813)

<223> n equals a,t,g, or c

<400> 394

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atttttatat ttttatgaaa caaaagagca tttcttcagg tttctattgt atttttttta 120
acattccttg agagaaagca agatccaaat tgattttggg atattaaaag ttaacagaac 180
actgaacaag gaaagaatgg catagatcta tctttacagt ctggagttaa ttcctgttaa 240
ctcattttat ccattcctta cataatcttc tttcctgtta gtccagtttg atggtgtgaa 300
tggatgaattt caggcccagt tgctaaattt tgtggcatct tcctctagtc cttcccacct 360
ccagtcacat gccccactct gtcttgagga caggcaggag gtgggggaag agctgaatct 420
ctttattttc cctggtagag acatcttcaa ggcatgaaat agcttaaaga gcagagtaga 480
aatggaagag gctttgcaaa aggctagata actaacaaca cctgggttgg ggcggcggcc 540
tcttctcttn cagctccctt agcttggtc cgtaagtgga tcacttgcca aatgctttag 600
atgattgcct ctcaataatt gaaagggtgg gtagttgta ttctaaatga tgtagaagg 660
taaaaataat tacattatgc ttctattcta tcatctaaaa cmaatcatta aaactaattt 720
ctagctaaat kgtaattat aattatgctc agaactctatt aatgagctct gctggcttac 780
gactgcgngt taagagaaat ctttacaaga ccnaggcctg aa 822

<210> 395

<211> 1702

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1694)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1696)

<223> n equals a,t,g, or c

<400> 395

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tggggggttg aaccgccccca attatttgts caaactgttg gggaagctcc cagaacttcg 180
taccctttgc acacaggggc tacagcgcac tttctacctg aaattggaag acttggtgcc 240
accgccagca ataattgaca aacttttctt ggacacttta ctttcttaag acctcctccc 300
aagcacttca aaggaaactgg aatgataatg gaaactgtca agagggggca agtcacatgg 360
gcagagatag ccgtgtgagc agtctcagct caagctgccc ccattttctg taacctcctc 420
agcccccttg atccctaaag aaaacaamca aacaaacaaa aactgttgct atttcctaac 480
ctgcaggcag aacctgaaag ggcatttttg ctccggggca tcctggattt agaacatgga 540
ctacacacaa tacagtggta taaacttttt attctcagtt taaaaatcag tttgttggtc 600
agaagaaaga ttgctataak gtataatggg aaatgttttg ccatgcttgg ttgttgcagt 660
tcagacaaat gtaacacaca cacacatata cacacacaca cacacacaga gacacatctt 720
aagggggaccc acaagtattg cccyttaaca agacttcaaa gttttctgct gtaaagaaag 780
ctgtaatatata tagtaaaact aaatgttgcg tgggtggcat gagttgaaga aggcaaaggc 840
ttgtaaatatt acccaatgca gtttggtctt ttaaattatt ttgtgcctat ttatgaataa 900
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tgtatgacag ttagagatgc tgattttttt tctgataaat tctttctttg agaaagacaa 1560
ttttaatgtt tacaacaata aaccatgtaa atgaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaag gggngnccgt tt 1702
```

<210> 396

<211> 858

<212> DNA

<213> Homo sapiens

<400> 396

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aagagggggc taaatttgat gctttaactg atctccaaca gttgacaggt catccttgcc 120
agttgtataa ctgaaaaagg acttttctac caggatgac cttttaagtg aaaatctgaa 180
ttgttctaaa tggaaagaaa aaaagttgca atctgtgccc ttcattgggg acattcctct 240
aggactggtt tggggacggg tgggaatgac ccctaggcaa ggggatgaga ccgcaggagg 300
aaatggcggg gaggaggcat tcttgaactg ctgaggatgg ggggtgtccc ctcagcggag 360
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gccaaaggag gggagcagcc tagttggtct tggagagatg gggaaaggctt tcagctgatt 420
tgcagaagtt gcccatgtgg gcccagcca tcagggtctg ccgtggacgt gccctgccc 480
actcacctgc ccgcctgccc gcccgccgc atagcacttg cagacctgcc tgaacgcaca 540
tgacatagca cttgccgatc tgcgtgtgtc cagaagggtgc ccttggccga gcgccgaact 600
cgctcgccct ctagatgtcc aagtgccacg tgaactatgc aatttaaagg gttgaccac 660
actagacgaa actggactcg tacgactctt tttatatatt ttatacttga aatgaaatcc 720
tttgcttctt ttttaagcga atgattgctt ttaatgtttg cactgattta gttgcatgat 780
tagtcagaaa ctgccatttg aaaaaaagtt atttttatag cagcaaaaaa aaaaaaaaaa 840
rakcaaaggw tttcattt 858

<210> 397

<211> 1110

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (996)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1100)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1106)

<223> n equals a,t,g, or c

<400> 397

cggtctgggt gcggaaacgc ggccgggtccg gttccgcggc ccaggcagag ggactctgca 60
agcaatggct gcagcgcgcc tggcaagagc ggcgcctgct gctgcgggag ccgcgctaca 120
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ctggtttcgt gtacatcttt atgggggttgt actatgccac cagccgaggc actgacatcc 360
gcatggccca gaacatcttt gctgtgctct acctggctac cttgctgctt gtcttcttga 420
tctatacca gacctgcaag taacctccct tcgtcttttt cttcatgtgc tgcgcctctt 480
accgtgtcca ctccatcttt gtgctgcggc tcttcaatga cccagtggcc atggtgctgc 540
tcttctcag tatcaacctc ctgctggccc agcgtgggg ctgggggttc tgctttttca 600
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ttgaccttg ccgccagttt ctgttccact ggacagtga ctggcgcttc ctcccagagg 840
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tgctgtttgc cctctgcagg tggcacagga caggggaaag tatcttgctg ctgctgaggg 960
atccctccaa aaggaagggt ccaccccagc cccttnacac ccaaccagat cgtttytaac 1020
ccttttcaac tccaatttca ttgggsatct ggtttcagsc gkttccttcc attaacagtt 1080
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<210> 398

<211> 864

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (823)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (830)

<223> n equals a,t,g, or c

<400> 398

gcggcacgtg gcgcgggtgc ggggcgtgga gtggcgtggc gtggagtggc gtggcgtggc 60
ggggctctgc gggcggggcg cgcacccgga gctgtggacg gagagtgcct ccctctggcc 120
tcagtttcct catgtttag tagcggacat ggcccggacc ggccscgag accgccccgt 180
gcaacctcac cgccagcctg ggggcctcag cgactgggac gggaccaagg ggctcgggga 240
ttctccctgc ccccgccct ggtgcgtgac tgacctcct gttcccagag ccccagcgc 300
argccgggat gttcgtcctg gtgaaatgg tggacaccgt ccggatcccc cttggcagt 360
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tcgtgtacaa cgtgggactc tgcatttgtc tgtttgatat caccaaactg gaggatgcct 480
atgtattccc tggggatggc gcatcacaca ccaaagtcca ttttcgtgc gtggtgtttc 540
atccattcct agatgagatt ctattggga agatcaaagg ctgcagccca gaaggagtgc 600
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ccaagttcga cgaagcggag caggtgtggg tgtgggagta cgagacggag gaaggagcac 720
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ttgacacgtc cccacargg cccagytcag cagatgccac cantttccan tgargagctg 840
ccaaagaagg aggtccggt acac 864

<210> 399

<211> 271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

<400> 399

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tggattttta taaggccaga catttacctc tggtaatctc ttgagccatg tgtttcattt 60
ttatgctcac agaataattt ggtgtaatgg ggcttatyaa cccaaatttc agaactttaa 120
attcatgtat ctttttctac actgatgact atactcaaag catcttactt taattatata 180
aatgtatata ctgtctttct caactggggt ttcaagagag aattaagccc aaaataaaat 240
aatttggtg ngcttatttt ctncattttt c 271
```

<210> 400

<211> 925

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (844)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (900)

<223> n equals a,t,g, or c

<400> 400

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cgggacaggg ggtctcggcc gtcggcgctca tggtttcgcg cgtgcagctc ccgcctgaga 120
tccagctggc tcagcgccctg gcggggaatg agcaggtgac ccgggaccgg gcggtgagga 180
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gcanacctgt tccttcaggc cttctggcag accatgaatc gcgagtggac gggcattgac 420
aggctgcgct ggataaattc tacatgctca tgcggatggt cctgaacgag tccttgaagg 480
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tcttcctgga ggagctgacc aaagtgggcg ccgangsagc ttacggcaga ccagaacctg 660
gaagttcatc gacccttct gcagaatcgc tgcccggacc aaggattcct tggttttgaa 720
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caacatcact cgaggcatct ttgagacgat tgtggagcag gccccgcttg ccattgaaga 780
cctcctgaat gaactggaca cacaggatga ggaggtggcg tcggacagtg atgagtcctc 840
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<210> 401

<211> 1085

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (774)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1080)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1085)

<223> n equals a,t,g, or c

<400> 401

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gtcttccttg aagggtgcga taaggccggg cgaggtgcct gggatgcttc tccccctccg 120
cgaggaagag atctaattgg gtagggcggg tgtagactag cctgccgagc cgccccgttg 180
cacctgcagc ctccctgggcg cccgccgggc cccggcgaga aagttgttaa agggagcgag 240
gtggttggtc ctggggtccg aggcgcgcct ctacgcctt gcccaacaga agccgcagtc 300
ccgtgggggtc tggagacgca gtttcctgtt aatgacaata aatccctgct cccctgcct 360
cagacatcta cgcagcgaaa tcgagccttg ccttgagggt ccacaccgcg agggaagatg 420
cgtgcgcccc ttccagagcc taagcctgga gacctgattg aratttttcg ccctttctac 480
agacactggg ccatctatgt tggcgatgga tatgtggttc atctggcccc tccaagttag 540
gtcgcaggag ctggtgcagc cagtgtcatg tccgccctga ctgacaaggc catcgtgaag 600
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caataactga aaaagactgt cctgtcagcg atgactttat acatcaaggg ggtcttggtt 960
tgctagagag tttgggggtt ggtttgtgga ttctattgtg atttataata aggcttattt 1020
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ggggn 1085

<210> 402

<211> 348

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<400> 402
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caaaggggaa aaattttccg ggggccaanc cggaaaggcc caaaaaaagg ttcccccccg 180
ggaaggaatc cccggttgga attgttaaaa caaaaggggg aattttgaag gccggaaatt 240
cggttgccc cccaacttcc cccaacattc ccggggggac ttgggggctg gaacgatgcc 300
ttgggagnct tcggcaagct tcgcaaggct ggttggtcag ctngcgca 348

<210> 403
<211> 1470
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<400> 403
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aaaaaaaaaa aaaaaaaaaa aggggagggg 1470

<210> 404

<211> 2487

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<400> 404

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cccgcggcgg cgcggcgcca cctccgcctg ctgctccgac ccgctcccg cccgcggcgg 180
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gagactaacc agaccccggt gcccatgctg tgtagcacag gatgtggctt ttatggaaat 360
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agtggcagaa tgagcccaat ggggacagct agtggttcca acagtcctac ctgagattct 480
gcatctgtac agagagcaga cactagctta acaactgtg aagggtgctg tggcagcaca 540
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atgagcattt caagagagga caaaataact accccgaaaa cagaggtgtc agagccagtt 660
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<210> 405

<211> 1256

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1180)

<223> n equals a,t,g, or c

<400> 405

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ggttcgtagt tcggctctgg ggtcttttgt gtccgggtct ggcttggtct tgtgtccgct 120
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gcccaccccg gtcytcggct ctggggccgc cgccgcgggc cggagccgag caccgtcggc 540
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<210> 406

<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<400> 406
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tgcaagagtg caagcaagtn ctggntcagc tcttggttga agcgccagat gtgtcggaag 240
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tactggcgctc cctgagggcc tccatcctcg ctcgggactg tgcggctgcg gcggctattg 480
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aagcccgaat ctccgtgaay tcaggaaaac ttttaaaagc agagtatat ctgagcagtc 660
taataagcaa caatggagca acgggtacct ggctgtacag aaatgaaagt gacaagggtcc 720
tggtgcagtc ggtctgtata cagatcagag ggcagattct gcaaaagctg g 771

<210> 407
<211> 2643
<212> DNA
<213> Homo sapiens

<400> 407
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tcatttcagg tgcatatgac cgtcttggtt aaatatggga ttatcagaat aaaacatgtg 180
tgcagacact ggaaggacat gcccataatg tgtcttggtc cagctttcat cctgagttgc 240
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tgt 2643

<210> 408

<211> 1646

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<400> 408

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cctcatcaag gaggcaggct ttccccctgg ggtggtgaac atcatcacgg ggtatggccc 120
aacagcaggt gcggccatcg cccagcacat ggatgttgac aaagttgcct tcaccggttc 180
caccgaggtg ggccacctga tccagaaagc agctggcgat tccaacctca agagagtcac 240
cctggagctg ggtggttaaga sccccagcat cgtgctggcc gatgctgaca tggagcatgc 300
cgtggagcag tgccacgaag ccctgttctt caacatgggc cagtgtgct gtgctggctc 360
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caaggagcag tttgaacgag tcctaggcta catccagctt ggccagaagg agggcgcaaa 540
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aaaaaaaaaa aaaaaaaaaa aaaaaa

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1646

<210> 409

<211> 876

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<400> 409

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tcaatcccc gtcctcctac acttttctct gtgagaaaga tccacctaca acctcaggtc 180
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cagactgccc agctcgccc acagccactc ctggagcccc taaagctcta gcccagggt 300
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taagtccatc ccctgtttaa tcgatacggg ggctaccac tccacgttgc cttcttttca 480
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cctgaaaact cccccactct ggtgccaact tggacaacac tcttttatgc actctttttt 600
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ttccctgact attcctggag tacagctaca tctcattgct gcccttcttc ccaatccaaa 720
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876

<210> 410

<211> 1850

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (1817)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1848)
<223> n equals a,t,g, or c

<400> 410
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gagagagtcg gagacactat ccgcttccat ccgtcgcgca gaccctgccg gagccgctgc 120
cgctatggat gatcgagagg atctggtgta ccaggcgaas ctggccgagc aggctgagcg 180
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<210> 411
<211> 661
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (568)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (648)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (660)

<223> n equals a,t,g, or c

<400> 411

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agcaaaatct tgtaaagtca ttcgcaaaaa cattgttaag aagtgccttg agctcttctc 180
tgagctggca gaagacaagg agaattacaa gaaattctat gaggcattct ctaaaaatct 240
caagcttggg atccacgaag actccactaa ccgccgccgc ctgtctgagc tgetgcgcta 300
tcatacctcc cagtctggag atgagatgac atctctgtca gagtatgttt ctgcgatgaa 360
ggagacacag aagtccatct attacatcac tggtgagagc aaagagcagg tggccaactc 420
agcttttgtg garcagagtgc ggaaacgggg cttcsaagtg gtwtatatga mcgarcccat 480
tgacrartwc tgtgtgcagc arctcmagga atttgawngg aararmctgg tcycagttac 540
caaggagggtc tggarctgcc tgaggtnnag gagagaagaa gaagatggaa gagagcaagg 600
caagtttaga ccttgcagct ctgaagaatc ttagttaaag ttagaagngc atcccatagn 660
t                                                                 661

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<210> 412

<211> 1263

<212> DNA

<213> Homo sapiens

<400> 412

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tctcagttca taggctatcc catcaccctt tatttgaga aggaacgaga gaaggaaatt 180
agtgatgatg aggcagagga agagaaaggt gagaaagaag aggaagataa agatgatgaa 240
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aagaagaaaa ctaagaagat caaagagaaa tacattgatc aggaagaact aaacaagacc 360
aagcctattt ggaccagaaa ccctgatgac atcacccaag aggagtatgg agaattctac 420
aagagcctca ctaatgactg ggaagaccac ttggcagtca agcacttttc tgtagaagggt 480
cagttggaat tcagggcatt gctattttatt cctcgtcggg ctccctttga cttttttgag 540

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aacaagaaga aaaagaacaa catcaaactc tatgtccgcc gtgtgttcat catggacagc 600
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gag 1263

<210> 413

<211> 1337

<212> DNA

<213> Homo sapiens

<400> 413

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aggcggctcg ggagattcag ccgtgaagca agtgcagata gatggccttg tggattataa 180
gataatcaaa cattatcaag aagaaggaca aggaactgaa gttgttcaag gagtgtttt 240
gggtctggtt gtagaagatc ggcttgaaat taccaactgc ttctcttcc ctcagcacac 300
agaggatgat gctgactttg atgaagtcca atatcagatg gaaatgatgc ggascctcgc 360
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gttaccggg cactcctgga ctctcagttt agttaccagc atgccattga agaactctgtc 480
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gaatacaaca actaagaaaa ggaagtctcc agaaaagaag ttaacatgaa ctcttgaagt 1140
cacaccagg caactcttg aagaaatata tttgcatatt gaaaagcaca gaggatttct 1200
ttagtgtcat tgccgatttt ggctataaca gtgtctttct agccataata aaataaaaca 1260
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ccattcccc ccttttg 1337

<210> 414

<211> 792

<212> DNA

<213> Homo sapiens

<220>

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<222> (744)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (783)

<223> n equals a,t,g, or c

<400> 414

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aagctactaa ccagagccgg ctctttctcg agattttatt ccctcaaagt tgccccaaa 180
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aagttaccaa atggcttggt gattgcttct ttggaaaact attctcctgt atcaagaatt 300
ggtttggtca ttaaagcagg cagtagatat gaggacttca gcaatttagg aaccacccat 360
ttgctgcgtc ttacatccag tctgacgaca aaaggagctt catctttcaa gataacccgt 420
ggaattgaag cagttggtgg caaattaagt gtgaccgcaa caagggaaaa catggcttat 480
actgtggaat gcctgcgggg tgatgttgat attctaattg agttcctgct caatgtcacc 540
acagcaccag aatttcgctc ttgggaagta gctgacctc agcctcagct aaagattgac 600
aaagctgtgg cctttcagaa tccgcagact catgtcattg aaaatttgca tgcagcagct 660
taccggaatg ccttggtctaa tcccttgkat tgtcctgact ataggattgg aaaagtgaca 720
tcagaggagg taccaakraa actntaaaga aattggcgct agaatacttg gagcaatggc 780
agnatcaata ga 792
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<210> 415

<211> 1342

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1036)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1038)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1099)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1181)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1224)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1246)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1255)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1338)

<223> n equals a,t,g, or c

<400> 415

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tcgcttcccg gcgcggctgc agccctcagc ccacttagga taatggcgac agctgaggta 180
ctgaacattg gtaaaaaatt atatgagggt aaaacaaaag aagtctacga attgttagac 240
agtcaggaa aagtcctcct gcagtccaag gaccagatta cagcaggaaa tgcagctaga 300
aaaaaccacc tggaaggaaa agctgcaatc tcaaataaaa tcaccagttg tatttttcag 360
ttattacagg aagcaggat taaaactgcc ttcaccagaa aatgtgggga gacagctttc 420
attgcaccgc agtgtgaaat gattccaatt gaatgggttt gcagaagaat agcaactggt 480
tcttttctca aaagaaatcc tgggtgtcaag gaaggatata agttttaccc acctaaagtg 540
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gtcctgggga acacctgcca tatnccaggt tatccagcct gtcctncccc ttaanaccca 1260
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<210> 416

<211> 1113

<212> DNA

<213> Homo sapiens

<400> 416

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tgagaacatt cgcaagctca cggggcggga tccgaatgac gtgaggccca tccaagccag 180
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cagtaggctg ggcggggagc gtcggaccag aagagaatca cgccaggaaa gcgacccgga 360
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gcgaatattt ggcttgttga tgggtaccct tcaaaaattt aaacaagaat ccactgttgc 540
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tgaacataat gccaaaataa ttaaatatat aagaactaag acaaagcccc atttgtttta 780
tattcctgga agaattgtgtc cagctaccca aaaactaata gaagagtcac agagaaaaat 840
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gaaggcggaa caagaagagg gtaagggtgc tcagcgagag gaagagttgg aggagacagg 1020
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aaagaaaaga aaagaaagga aagaaaagaa aac
1113

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<210> 417

<211> 1174

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<400> 417

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gctccagttc ctaggactgt acaagaaatc tggaaaactt gtattcttag gtttggataa 240
tgcaggcaaa accactcttc ttcacatgct caaagatgac agattgggccc aacatgttcc 300
aacactacat ccgacatcag aagagctaac aattgctgga atgaccttta caacttttga 360
tcttggtggg cacgagcaag cacgtcgcgt ttggaaaaat tatctcccag caattaatgg 420
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taatgcttta atgactgatg aaacaatatc caatgtgcc atccttatct tgggtaacaa 540
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acagaccaca ggaaggggga atgtgacct gaaggagctg aatgctcgcc ccatggaagt 660
gttcattgtc agtgtgtca agaggcaagg ttacggcgag ggtttccgct ggctctccca 720
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graaaacacg tctcaccact gtggttgatt caaaagaaag tgattctatt ttttaaagaa 1080
agcgttggtta atgtaattgg tatccctcct aactttttga gttcasaatt tacttggtca 1140
gattttctat tctttttttt ttttaaaacta atga 1174

<210> 418

<211> 673

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (506)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (586)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (661)

<223> n equals a,t,g, or c

<400> 418

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ngggcaacca ttg 673

<210> 419

<211> 2178

<212> DNA

<213> Homo sapiens

<400> 419

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caaaccacct tttatgtttt attatttttg aattcatgga gccatcataa aaatattttt 1860
aaaatcagaa ttattgatac cctgtagtgc aaaatgtcaa tttttaatgt ataatcagaa 1920
gtctgaattt ttataaaaca tatagcataa aaacttccag tactttggtt gacccttgta 1980
tgtcacagct ctgctctatt tattattatt ttgcaaaata accattttta catttgataa 2040
agcatattta tgaacatatt tcttaataag aaaaatatcc attttattac cattttctat 2100
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gaaaaaaaaa aaaaaaaaaa 2178
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<210> 420

<211> 1884

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<400> 420

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<210> 421

<211> 622

<212> DNA

<213> Homo sapiens

<400> 421

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aaaaaaaaaa aaacttgggg gg 622

<210> 422

<211> 1285

<212> DNA

<213> Homo sapiens

<400> 422

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<210> 423

<211> 528

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<220>
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<222> (510)
<223> n equals a,t,g, or c

<400> 423
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<210> 424
<211> 3118
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<400> 424
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<210> 425

<211> 1410

<212> DNA

<213> Homo sapiens

<400> 425

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<210> 426

<211> 1422

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<400> 426

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gcgaatgatc gcaggagagc acagactgga ccttgctacg atctctcttg gagtggatca 180
gactgatgat caccaacaac caactcattc ccggataagg aagaagagag tgtcacctac 240
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<210> 427

<211> 830

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (686)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<400> 427

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<210> 428

<211> 1622

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<400> 428

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<210> 429

<211> 548

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<400> 429

```
ctatgctact tagatatttg tggcaaagca gaaagctttt tgactgtnaa ggcagaggtc 60
agcactgggg gaaacttgct ggtgggtctct cccacaacct tgcccagagt cctttccact 120
aaggagggtga agagaacaga gaaagagatt tccattttctg ctgccagagc tgggtatttgc 180
ctgcctgatt ctctgtgttt cctgtttcac cgccaccctt tcaggagaga actacaccag 240
ttcatcatga gggtcaggga agcaaaagct ctcagatgtg tccagggcgt tacttaagaa 300
atgagtatgc agattctgga aggggtgtgg aaaaggatgat cctttacccc caccaggaa 360
aacctgcatt gtgctagcat ggaanaatca tgggctttgg aattaaacct atttggtgga 420
attaaacca tttggtttca aatcccagtt atnacatctg ttaactttgc aaactcacia 480
aaattatttg aaattatctg agttttcatt tntcacctt ccagaatggg gataatgcct 540
cctgcatc 548
```

<210> 430

<211> 569

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (553)

<223> n equals a,t,g, or c

<400> 430

```
cccccgccct cggcgcttc tgtgggagca agaagcccga gcccgctctg gccacaggca 60
gccgcatgtt cctgcgcttc tactcagata actcgggtcca gcgaaagggc ttccaggcct 120
cccacgccac agagtgcggg ggccaggtag gggcagacgt gaagaccaag gacctttact 180
cccacgcccc gtttggcgac aacaactacc ctgggggtgt ggactgtgag tgggtcattg 240
tggctgagga aggctacggc gtggagctcg tgttccagac ctttgagggt gaggaggaga 300
ccgactgcgg ctatgactac atggagctct tcgacggcta cgacagcaca gccccaggc 360
tggggcgcta ctgtggctca nggcctcctg aggagggtgta ctcggcgagg gattctgctg 420
tragtcactc gatacaccat accaaaaaag gtttccacct gcgatacacc agcaccaagt 480
tccaggacac acttcacagc aggaaatgac cactggcttr acaagggccg ggactggamc 540
ctgktgccct tgnccgctaa actggataa 569
```

<210> 431

<211> 549

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (541)
<223> n equals a,t,g, or c

<400> 431
gccggaactt ttgtcgatag gaacggggtt gcacagttga gtgttgctcg ccggcggtgaa 60
ggagactagg gggccatcct ctctctttcg ccgtcgccgc cgcggagcgg agtcgagccg 120
agctgatttg atcgaggagc gcgggtaccg gacgggctgg gtctatggtc gctccgctgg 180
ccgctccgcc ggctgggtgct tttttatcag ggcaagctgt gttccatggc agggaaacttt 240
tggcagagct cccactatct gcaatggatt ttggataaac aagatctgtt gaaggagcgc 300
caaaaggatt taaagtttct ctcaaggagaa gaatattgga agttacaaat attttttaca 360
aatgttatcc aagcattagg tgaacatctt aaattaagac aacaagttat tgccactgct 420
acggtatatt tcaagagatt ctatgccagg tattctctga aaagtataga tcctgtatta 480
atggctccta catgtgtgtt tttggcatcc aaagtagang gaaaaaaaaat tttttttttt 540
ngggggggg 549

<210> 432
<211> 1221
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1183)
<223> n equals a,t,g, or c

<400> 432
cgcaactccc ctctgctggg cgcgcggtgg acggtctgaa agggagtgtt cgggtttcgc 60
tggggcctcg cggctccaga gccagcatg gcttcctcgc gagcctcttc cacggcaacc 120
aaaactaaag caccgcacga cttagttgct ccggtcgtga agaaaccaca catctattat 180
ggaagtgttg aagagaagga gagggagcgt ctggccaaag gagagtctgg gattttggg 240
aaagacggac ttaaagcagg gatcgaagct ggaaatatta atataacctc tggagaagtg 300
tttgaaattg aagagcatat cagcgagcga caggcagaag tattggctga gtttgagaga 360
aggaagcagc cccggcagat caatgtttcc acagatgact cagagggtcaa agcttgccct 420
agagccttg ggaacccat cacacttttt ggagagggtc ctgctgaaag aagagaaagg 480
ttaagaaata tcctctcagt tgcggtact gatgccttga aaaagaccaa aaaggatgat 540
gagaagtcta aaaagtccaa agaagagtat cagcaaacct ggtatcatga aggaccaa 600
agcttgaagg tggcaagact atggattgct aattattcgt tgcccagggc aatgaaacgc 660
ttggaagagg cccgactcca taaggagatt cctgagacaa caaggacctc ccagatgcaa 720
gagctgcaca agtctctccg gtctttgaat aatttttgca gtcagattgg ggatgatcgg 780

cctatctcct actgtcactt tagtcccaat tccaagatgc tggccacagc ttgttgaggt 840
gggctttgca agctctggtc tgttcctgat tgcaacctcc ttcacactct tcgagggcat 900
aacacaaatg taggagcaat tgtattccat cccaaatcca ctgtctcctt ggacccaaaa 960
gatgtcaacc tggcctcttg tgcggctgat ggctctgtga agctttggag tctcgacagg 1020
tgaatatcac tgttctgtgg ccatactgc catcactaaa gtagatgttt gattggttg 1080
tccccaggac ctacagtaaaa atctggcatt agggccatgc gcatgggctc acaccttaag 1140
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ttgcacactg cactcccagc t 1221

<210> 433

<211> 1115

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<400> 433

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acgttkccca ggctgatctc gaacctctgg gctcaagcaa ttcactcgcc tcggcctccc 120
aaaatgctgg gattacaggc ctgagccact gcgcccagcc aggatttgaa ttattttaac 180
tcatccatgg gctgccctag aatgtcacia atgaggggtg tttaatgcct ttcttatagc 240
tgctactgga aactatttat gacctaattt atgagccatc cttactcatc tacaagtgtc 300
gaagcaatgt tacatacttt tttgctaaac tcagattttt tagcctaatt tcttgctctc 360
ctatccacct gcatccacac atggcctgca tggggctgcc ttccctgcag tgttctgcag 420
ccatgcttca gggatatagc gttggtggac agcctcaggc cttgggggca ctatagccac 480
taaacgaggt gtgaaaggct caagaggatg accagcaatt aattatcccc agaaagtga 540
ggaaaagaga ccttttagga tggtgctggt caagtcttga ttgaccgga gtcaaataca 600
tcttcaagca atcttggaat cctcaactgc agtaagcatt tcaaaatgca aacaaactgc 660
ttaacaactg acaagacacc agccatacgc ctgctcttcc aacagtgggt tctagctttg 720
aacaaaagtg ctaaacattt ccttgaatat attcttctc tttttgtcct catcactcaa 780
tactggtgct cttgtcacag gtagaacagc ttgtttcttt tccatctatt caagtgtgtt 840
tctaattcta aaatgctgat cttctctgga gtctatggta ggcaattatg gtcactggaa 900
tagtttgtct tgttttmaaa tattattggt gcatgtacaa cagcatccaa catatctgtc 960
ttgttcctag atatatagct ctgattttag gccttttgtg cataccatta caatatggtg 1020
gggtaagaca ttctacagta gcctgtgctg aactgatctc ttaaataaac ttgcttctgg 1080
ttaactaaaa aaaaaaaaaa agggcggygc ctcta 1115

<210> 434

<211> 1604

<212> DNA

<213> Homo sapiens

<400> 434

ctgctgtac tctgtttctt tcctcacttt gctttccaag gtggtatgtg atccccagct 60
caggcctgtg cagacaggaa attctccctc gcagcaagta ggggaagtgg gttgtgggat 120
gtgacctcct tccagatata aggcagttag tgtaaacctg ccacctccag cctgatcca 180
ttctcaccta gcggctacag gaagctgtgt ctgttcgatt tgggtgggagg agatgtgcag 240
ggagctgtat cttgtcctcc gcttgtgaaa aactcaagga tgtggagaag agtagaccgt 300

```

ggaaccctgc tcttctgcag ccaagctgag gggcaggatg cgtgtgggac agtggtagag 360
aagcagggga tagactcata ggctgcaaca aaggtgactc tgtccctgga cactgcctcc 420
gtactttctc cttgcttcac tggccacagc atctccctcc agccctcgt atgtgcctct 480
gccatcttca cccatcatgg agcagagggtg aggagaggca gcctgggaat atggagacca 540
gtgaaggacc aggcctggag agcacagggt cctacctggg catccagcag aggagcccc 600
aaaggccagg agcaccccaa gaggagggag ggcagccagc ctccattgac ggcgagcctc 660
cagccctctc ctactttgat caccatttct ctccaggctt tctgcctccg agatgtggca 720
ccatagtgcg gtgccctgtg gcttcaccgc cctacttcca cctccgcca gcctgtaatg 780
tttatataag cagcctcaag gaccaagaac catctgcgaa aggacacaca caggaaattc 840
ataaaagaaa tctgaatgga taaaaccatg aaaaaagta tgcttcatta gtaattaaag 900
aaaggcaaat agagctggaa gcatttttcc cttagcaaac cataacagaa aaaaataaga 960
cccaatattg gcaaagagac tactgaaaaa acattcccat acattgctg tgggagtata 1020
catcggtgca ggcttcctgg atgacagttg ggtgatatgt gtcattgtgc ctaaaagcct 1080
ccatgtcatt tgacctacga attctatctt tgggaattta tcctaagaaa atacttaagg 1140
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gtttggttg gaatttatct ctttctgtgt gtaacgaaag tttgcaatag gggattgctt 1260
aagtaaatta ttgtatctcc atccagatgg tggagtaccg cgcagacatt aaaagtcatt 1320
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agcagataaa aaagacggaa ggcatactaa aaaatgttga gtggttatct ttgtatggtg 1500
gaacaaagtc actgtaattt tcatctttgg ttttctgtg atttccaaat tttccacatt 1560
ttgtatttca tataataaat ataatttaag aaaaaaaaaa aaaa 1604

```

<210> 435

<211> 301

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (277)

<223> n equals a,t,g, or c

<400> 435

```

gaggcggtga acgagcagct ttctagcgag cgcagcaacc tggcccagggt gatccgccag 60
gagttcgagg accggctggc agcctctgag gaggagacgc ggcaggccaa ggccgagctg 120
gccacgtgc aggcccgcca gcagctggag ctggaggagg tgcaccggag ggtgaagaca 180
gccctcgcga ggaaggagga ggccgtgagc agcctccgga cacaacatga ggtgagtccc 240
tgtggccagc cctgctggac ctcggggctg ggancangcc tgaccctgtg ggtgtgctgc 300
a 301

```

<210> 436

<211> 318

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (242)

<223> n equals a,t,g, or c

<400> 436

```
aattcggcac gaggaacccc ttagtcctgg ccatttcaaa agcatcacac agaagaagac 60
cttgatattt acatttaagt cacatatgca gctactgaca cttactagtg ctgttatagt 120
cctggctatt attccatgag gtcgtcacat tttaaccttt tgcataagcc tccaacggcc 180
tgatggaatg atgaagcctc agaacagttt ctacacaatg gctaagggat gtacccattt 240
tnaattttcc tcttttctgt gatcacagag ggtgaatacg ctttggccgg atacacagaa 300
gtgaaaactg tcacccat                                     318
```

<210> 437

<211> 1882

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1793)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1795)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1818)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1826)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1844)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1855)

<223> n equals a,t,g, or c

<400> 437

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tagcccgtcg ggagcgccag gccggccagg cctgcgccgy cgccgccgcc gccgtcgccg 60
ccgcgccgac catgtcgmag ccaaggagaa cccgtgcagg aaattccagg ccaacatctt 120
```

```
caacaagagc aagtgtcaga actgcttcaa gccccgcgag tcgcatctgc tcaacgacga 180
ggacctgacg caggcaaaac ccatttatgg cgggttgctg ctccctggctc cagatgggac 240
cgactttgac aaccagtgac accggtctcg gaaatggcag cgacggttct tcacccctta 300
cgagcacggs ctcttgcgct acgccctgga tgagatgccc acgacccttc ctcagggcac 360
catcaacatg aaccagtgca cagatgtggt ggatggggag ggccgcacgg gccagaagtt 420
ctccctgtgt attctgacgc ctgagaagga gcatttcac cgggcggaga ccaaggagat 480
cgtcartggg tggctggaga tgctcatggt ctatccccgg accaacaagc agaatcagaa 540
gaagaaacgg aaagtggagc cccccacacc acaggagcct gggcctgcca agtggctgtt 600
accagcagca gcagcagcag cagcagcagc agcagcatcc ccagtgtga gaaagtcccc 660
accaccaagt ccacactctg gcaggaagaa atgaggacca aggaccagcc agatggcagc 720
agctgagtc agctcagagt cccagccaga gccagcctcc tgctgccagc ytctgcggga 780
actgggctag agagcaaaga agaggagagc gccatgagta gcgaccgcat ggactgtggc 840
cgcaaagtcc ggggtggagag cggctacttc tctctggaga agaccaaaca ggacttgaag 900
gctgaagaac agcagctgcc cccgccgctc tcccctcca gccccagcac cccaaccac 960
aggagggtccc aggtgattga aaagtgtgag gccttgga ttgagaaggc agagcacatg 1020
gagaccaatg cagtggggcc ctcaccatcc agcgacacac gccagggccg cagcgagaag 1080
aggcggttcc ctaggaagcg ggacttcacc aatgaagccc ccccagctcc tctcccagac 1140
gcctcggtt cccccctgtc tccacaccga agagccaagt cactggacag gaggtccacg 1200
gagccctccg tgacgcccga cctgctgaat ttcaagaaag gctggctgac taagcagtat 1260
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agggattcag tggctgagga ggcagccgac ttggatggag aaattgactt gtccgcatgt 1380
tacgatgtca cagagtatcc agttcagaga aactatggct tccagatata taaaaggag 1440
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cgctccaaga cttttgactg ggctgagttc cgtcccatcc agcaggccct ggctcaggag 1740
cgggtgggag gcgtggggcc tgctgacacc cacgagcccc tgcgccctga ggngnasctg 1800
gggaagctgg agcgggancg tgacnngaag cgggaggagc gccncaagcg cttcnggatg 1860
ctcgacgcca cagaacgggc ca 1882
```

<210> 438

<211> 2056

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2046)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2053)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2054)

<223> n equals a,t,g, or c

<400> 438

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gattcagctt aacccgtgat cttcttaagt taaagggtact tttgttttat aaaagctcta 60
gataaaactt tcttttctga tcatgaatca agtatctgtg gtttcatgcc cctctctata 120
cctttcaaag aactcctgaa gcaacttaac tcatcatttc agcctctgag tagaggtaaa 180
acctatgtgt acttctgttt atgatccata ttgatattta tgacatgaac acagaatagt 240
accttacatt tgctaaacag acagttaata tcaaatcctt tcaatattct gggaaacccag 300
ggaagttttt aaaaatgtca ttactttcaa aggaacagaa gtagttaacc aaactaacia 360
gcaaaacctg aggtttacct agtgacacca aattatcggg attttaactg aatttaccca 420
ttgactaaga atgaaccaga tttgggtggg gttttgtttc tatgcaaact ggacacaaat 480
tacaacagta aattttttta taagtgttc tcccttctcc atgatgtgac ttccggagat 540
aaaggattca aaagataaag acaaagtacg ctacagagtg ttaaccagaa agtcctggct 600
gtggttgagc aaacactgtt ggaagaaaag agatgactaa gtcaagtgtc tgccttatca 660
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tccttgataa aagtcatctt ctctactgtg tgaaatgaat acttggaatt ctaattgttt 780
tgtgtgccag gggcagtaat gtccctgcct cttctcccaa tcaagggtga ggagtggggc 840
tggggagagg acttaactga cttaagaagt agggaaaaca aaaacctctc tcctcagcct 900
tcacactcca agagaggagg aaaaacagtt gtctgctgtc tgtaattcag tttgcgtgta 960
ttttatgctc atgcaccaac ccatacagag taaatctttt atcaactata tactgggtgtt 1020
taatagagaa tgattgtctt ccgagttttt tgggtccctt ttttaactgtg ttaaagtact 1080
tgaaatgtat tgactgctga ctatatatta aaaacaaaat gaaataattt gagttgtatt 1140
acagagggtg acattgttca gggatgggac aaagccttct tcaatccttt tcatactact 1200
taatgatttt ggtgcaggaa cctgagattt tctgatttat atttcatgat atttcacatt 1260
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atattttgta gcacctcact atctgaaagg ccatgagttt tcagatgatt tcattgagct 1380
tcattgcagc ctgaaatttt aaaaaagttg tgtaatacgc caaccagtca agttgtgttt 1440
tggccagaga tttagatatg tccaatttcc tggctcattt cattgtgctc tatgggtacg 1500
tataaaaagc aagaattctg tttcctaggc aaacattgca actcagggct aaagtcattc 1560
agtgaacttt ttagagccag aagtaacttt gtcccagtc tacaatgtga aaagagtga 1620
tagttgcctc ttttttagcca ttttcatggc tgggtacatat tcgtacgcat tacttttcag 1680
aatcaatacg cactttcaga tattcttatt tttattctct taagtcttta ttaactttgg 1740
agagagaaat gatgcatttt tttattttta atgaagtaga tcaacatggg ggaacaaaat 1800
gataaagaac agaaaacatt tcaatatatt actaataact ttttccaata taaatcctaa 1860
aattcctata acatagtatt ttacagtttt atgaagcttt ctattgtgac ttttatggaa 1920
ttaagagatg aagaagatga gatatttttag catttatatt tttcaaaatt atatgtatac 1980
ttaaaaataa agtaacttta tgcatttaaa aaaaaaaaaa agggsgggccc gtttttagag 2040
atccangttt acnncc 2056
```

<210> 439

<211> 721

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (688)

<223> n equals a,t,g, or c

<400> 439

```
ggcggcgagg rcaggtcgga gctcggagct gctgcttctg gttctcttgt ggccgccgtc 60
gctgtccggc tgccttgggc tgccgaacag acaaggcgtg ggccacagca cctcagaagc 120
cgacgcagct cgacgcaggg gccggcaggga ggggtgggca tcgcgtgtcg gagggcgccg 180
```


cgcgggcgagg cgggcgggcg ccagaggggg aaagaggcgg gggcgggcggg tcagccgctg 240
gccggggccgg ccgggggaatg tcgatgcctg acgcgatgcc gctgcccggg gtcggggagg 300
agctgaagca ggccaaggag atcgaggacg ccgagaagta ctccctcatg gccaccgtca 360
ccaaggcgcc caagaagcaa atccagtttg ctgatgacat gcaggagttc accaaattcc 420
ccacaaaaac tggccgaaga tctttgtctc gctcgatctc acagtctctc actgacagct 480
acagttcagc tgcattctac acagatagct ctgatgatga ggtttctccc cgagagaagc 540
agcaaaccac ctccaagggc agcagcaatt tctgtgtgaa gaacatcaag caggcagaat 600
ttggacgccc ggagattgag attgcagagc aagacatgtc tgctctgatt tactcagga 660
aacgtgctca gggggaraag cccttggnat gtgstaataa akkgggyttg acacattaca 720
g 721

<210> 440

<211> 1041

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1025)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1030)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1039)

<223> n equals a,t,g, or c

<400> 440

ctcgtgcgcg gacattgtca gctgcgtttc cgcggtcgcg gttgaggagc tcaagcttgg 60
gaaaatggtg tgcattcctt gtatcgatcat tccagttctg ctctggatct acaaaaaatt 120
cctggagcca tatatatacc ctctggtttc ccccttcggt agtcgtatat ggcctaagaa 180
agcaatacaa gaatccaatg atacaaacaa aggcaaagta aactttaagg gtgcagacat 240
gaatggatta ccaacaaaag gaccaacaga aatctgtgat aaaaagaaaag actaaagaaa 300
ttttcctaaa ggaccccatc atttaaaaaa tggacctgat aatatgaagc atcttccttg 360
taattgtctc tgaccttttt atctgagacc ggaattcagg ataggagtct agatatttac 420
ctgatactaa tcaggaaata tatgatatcc gtatttaaaa tgtagttagt tatatttaat 480
gacctattc ctaagttcct ttttcgttaa tgtagctttc atttctgtta ttgctgtttg 540
aataatatga ttaaatagaa ggtttggtgc agtagacatt atgttactaa atcagcactt 600
taaaatcttt ggttctctaa ttcatatgaa tttgctgttt gctctaattt ctttgggctc 660
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<210> 441
<211> 1995
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1957)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1992)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1995)
<223> n equals a,t,g, or c

<400> 441
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gctgatcaaa tncan 1995

<210> 442

<211> 1723

<212> DNA

<213> Homo sapiens

<400> 442

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<210> 443

<211> 1899

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1878)

<223> n equals a,t,g, or c

<400> 443

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cctgccgagc aacaraggct ctttaacgaa gccgcagcca tcatcaggca cctggagtg 180
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aaaaaaaaaa aaaccccnng gggggcccgg taccaattc 1899
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<210> 444

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

<400> 444

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ttgcctgccc atctctgttc catacattct taccaggcac tgagagtcac ggggagttta 120
agactccatc ccacatactc cttttgaaac tgggccagtg tacaacatcc agtgaagagt 180
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aacctcctca attcatcggt gatacacaaa ggcccactaa gctgtgtggt tcactcagca 300
tcacgtggct aatatgatat gaagccacac tagcttgtcc tcagctgtgc caagaatgag 360
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tagggcagtg                                     430
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<210> 445

<211> 2153

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (166)

<223> n equals a,t,g, or c

<400> 445

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taggaacttc agaccagatt gttccagagt accaggagga cagtgnacat tagttccttc 180
ttctgctaata ccccaaaacc tcagaaacct cataattctt aacacctggc atttccattt 240
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<210> 446

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (489)

<223> n equals a,t,g, or c

<400> 446

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cgggncgact acgtgagtra ggaggtgtgg taccgtgtgc tacagatcgt caccaaccgt 360
gatgacgtcc agggctatgc ccgcaagccc gtctcccgtc acctgtgtga gctgctggca 420
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ggacttgang ca 492

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<210> 447

<211> 1539

<212> DNA

<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<400> 447
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<210> 448
<211> 3983
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (227)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1010)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (3067)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3255)

<223> n equals a,t,g, or c

<400> 448

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aaaaaaaaa aaaaaaaaaa aaa 3983

<211> 1177
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<400> 449
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aatctataat gaaaattgca caaataaca tttcttaaca aatttaatac aatttttgtg 420
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tgagagggca gcgaatgaat gagatttgct atgtgctaataaaaagctgaa tttttgtaat 600
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<210> 450
<211> 2428
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2009)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2037)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2420)
<223> n equals a,t,g, or c

<400> 450
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<210> 451

<211> 2485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<400> 451

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cattgtaaaa gacctgtgt cacgaacccc cgcttgggtt ttgaaacacg taaacaacac 360
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aaaaaaaaaa aaaaaaaaaa aaaac                                     2485
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<210> 452

<211> 963

<212> DNA

<213> Homo sapiens

<400> 452

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<210> 453

<211> 604

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

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<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (540)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<400> 453

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tttatgaatc tcatgtggga atttcttccc atgaaggaaa agtagcttct tataaacatt 240
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caatcatgga gcatgcttac tatgccagct ttggttacca aatcacaagc ttctttgcag 360
cttccagccg ttatggaaca cctgaagagc tacaagaact ggtagacaca gctcattyca 420
tggttatcat agtcctctta gatgtggtac aagcscatgc ttcaaaaaat tccagcagat 480
gggattggaa tatggttttg atgggggaca gattccnggt taattttcca ttcctgggan 540
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cagt 604
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<210> 454

<211> 1917

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1256)

<223> n equals a,t,g, or c

<400> 454

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cttgccagat cctccctct gtagacaacc accaacctct gtttgctgtt gaattctctc 480
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gggcagaagg ttggaggagc acttatgagg gtggccgggg gtctgacgct gcacttttga 600
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acattcttga agttttctca ggctttggac acttctgggg atggagggtg ggagaagtgg 720
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<210> 455

<211> 1538

<212> DNA

<213> Homo sapiens

<400> 455

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tttctgtct cttatggctg acctttatgt atttcttctg gaaactagga gatccctttc 540
ccattctcag cccaaaacat gggatcttat ccatagaaca gctcatcagc cgggttggtg 600
tgattggagt gactctcatg gctcttcttt ctggatttgg tgctgtcaac tgcccatata 660
cttacatgtc ttacttcttc agaatgtga ctgacacgga tattctagcc ctggaacggc 720
gactgctgca aaccatggat atgatcataa gcaaaaagaa aaggatggca atggcacgga 780
gaacaatgtt ccagaagggg gaagtgcata acaaacatc aggtttcttg ggaatgataa 840
aaagtgttac cacttcagca tcaggaagtg aaaatcttac tcttattcaa caggaagtgg 900
atgctttgga agaattaagc aggcagcttt ttctggaaac agctgatcta tatgtacca 960
aggagagaat agaatactcc aaaaccttca aggggaaata ttttaatttt cttggttact 1020
tttctctat ttactgtgtt tggaaaattt tcatggctac catcaatatt gtttttgatc 1080
gagttgggaa aacggatcct gtcacaagag gcattgagat cactgtgaat tatctgggaa 1140
tccaatttga tgtgaagttt tgggcccaac acatttcctt cattcttgtt ggaataatca 1200
tcgtcacatc catcagagga ttgtgatca ctcttmccma ggtgatacta tgaccatgag 1260

```

```
tagcatcagc cagaacatga gagggagaac taactcaaga caatactcag cagagagcat 1320
cccgtgtgga tatgaggctg gtgtagaggc ggagaggagc caagaaacta aagggtgaaaa 1380
atacactgga actctggggc aagasatgtc tatggtagct gagccaaaca cgtaggattt 1440
ccgttttaag gttcacatgg aaaaggttat agctttgcct tgagattgac tcattaaaaat 1500
cagagactgt aaaaaaaaaa aaaaaaaaaa gggcgggc 1538
```

<210> 456

<211> 2189

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<400> 456

```
ggcatattaa taaatgnaat taaatgtctt aataagcagc tggctgaact ctagagagaa 60
ctgctgtaga cttctgcaat cagtctctgt attggatat ccagtactat cgggtttagg 120
ttctttttat ttttccttaa atcttacttg tttctagcgt cttaagagt gtaatggtaa 180
aatgtgaagt tacaataaac ttctgcttgt tttctcagaa catctttggc atgaggaaga 240
actttttgtg aatgatacag tagtctcagc atctgttaat ttgtggtttt caaagcattt 300
ttgacagagt ttacctaatg taaaaagatt aaacagtttt ataaaacaca aataaacatt 360
cctacctgaa ctgtgaggaa cagagtgtat agtacaaatg taattaggca ttgcctcctg 420
gcgaggttct tgatgcatga cttcgatgct ggctgctgac tgaggtgacc actgtcagta 480
ttgtactttg gcatatgttg tttttaggra aataatggaa tgcattctta gattaactta 540
ctgtttttga gttggaaaaa ataaaagatg aggtattata agtatgccaa atattttatac 600
actacaaaag attaaaaaag gagagggaga aaaaaaaagg ccagttatga ttttaatagc 660
gtctaatttt tttttgactc gaattttgtg gacactagtc aattgcataa tttaacatgg 720
aggagctttc atttaaaaga agttctcagc tactatatct tgccattaaa attaacatg 780
cctgttaatt ttacattgct tgaagatata agtaagctgc cgtcaatatt gttttaagat 840
tttcttatag tttatgttta aatggaaaag ttacatatat aatctatggt gcagggtcag 900
gcattggcca ttaaagataa gtttggttaa ctattttact gaagagacta atggtcttcc 960
ctctgttgta ctgctatgtt tcttgatctg tttttcccca atgtaacagt ctacattgaa 1020
gtccttttagc tctctccata tactaattga catttggtta ggattcaata ttttgtgaat 1080
tctttttacc cttaaaatgc atatctttca gagagataag aatgaatttt gcaataattt 1140
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agtatgatgc taaattctaa ggctaattgta atgactgtag attatctatg tccacattgt 1260
tcaacagaaa tataatgtga accacaacat aatttttaat tttctagtag ccatattaaa 1320
aaagaaacaa gcaaaattaa ttttaataac agtttatgta acccagtata ttaaaaaatat 1380
cattttcaaca tgtaatcaat ataaaagatt attaatgaaa caccttatct tctttttctt 1440
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gccacatttt aagtgtcag tagtcacata tggctaaggg ctactatact ggacagtaca 1560
gattcataga gtataaaata tgactttaac tttggagatg gtgaggtagg cctgtaatta 1620
tggactttta aaaattcaga atatttagaa aagcatctaa tagaattatc cacttgwttt 1680
ccttcacctt cattttaata tgttctagaa gtaggatcag cctgttccaa tttgccaagc 1740
attattaagg aggaataatt ccataccatg taaaatacca tgatatgctg attatactac 1800
attaacaaat ttttaagttg cgttcactaa attctgtcct gtttcttcaa aataatatag 1860
cttaaaattgc atgttaattg tatactttac ctattttgtt tttatattat tcttacaata 1920
taatcatgta tattaacaaa cagccctggg attctaactt tcctctgcaa ctgtcttcca 1980
ggacttactg gcacttatta cactgtgata agtggcagaa aagtagaatg aaatattctt 2040
```



```
tttccattag atttgttctt atgtgaccat gtaccaagcc agctataaag tattgtattt 2100
ctgtagaata tggaaaatag tatttgtctt accttgccta aatgtttgca atttctaagt 2160
aaacctttta tctcctaaaa aaaaaaaaaa 2189
```

<210> 457

<211> 1399

<212> DNA

<213> Homo sapiens

<400> 457

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gcaccccgcc ttgtagtgac ctgtcggcac gtgtcccctc gggaagcagc cagggctcctg 60
gtgcgctcca ccacccccaa gagtgtggcc atctggggcc gtgtggtatt tgccactcag 120
gagacatgtc cctatgacat agcagtgggtg agcctggagg aggacctgga tgatgtcccc 180
atccctgtgc ccgctgagca cttccatgaa ggcgaggctg tgagtgtggt gggctttggc 240
gtctttggcc agtcttgctg gccctcggtg acctcaggca tcctttcggc tgtggtgcag 300
gtgaatggca cgcccgtaat gctgcagacc acgtgtgctg tgcacagcgg ctccagtggg 360
ggacccctct tctccaacca ctcaggaaac ctctttggca taatcaccag caacaccccg 420
gacaataata cggggggccac ctacccccac ctgaacttca gcattcccat cacggtgctc 480
cagccggccc tgcagcagta cagccagacc caagacctag gtggcctccg tgagctggac 540
cgcgtgctg agccagtcag ggtggtgtgg cggttgcagc ggcccttggc agaggccccg 600
cggagcaagc tctgaggctg tgttaccacc tttgaaaga agagtgcct ttttctgctg 660
taggaagtga tgttgagggt acggtggcct caggattcag ggcccagccc ctgcaggggc 720
ccaggctgcc tctcatctcc acccaactgac tgcagactgg gctttgggct ctggggcaaa 780
cttctcttca gccccatgga tccttaacct ggcagcccgt tttggggtgc tttcttgagc 840
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cactccaact gcacagaagt tctgggcctg acaggtagat tccagctgga aggcaggccc 960
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catctcagca gaaaccttgc tctgaagacc agagacagaa gggacagaaa caggagtgcc 1140
tcctgctgtg ccaggcccat gggcagtgca ggcagatccc tgaaggctcag cactcctggg 1200
tcttcatatg ccaacagggg cgtctctgac actgtgcctt cattttccag cccacagcct 1260
gggtctcagg gatcttgagg ggtagaacat gtctggttgg ggcttgggaa taaacatgat 1320
ctattgaaaa accwcwrtat ttatatattca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaa aaaaaaaaaa 1399
```

<210> 458

<211> 709

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 458

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cacgagcggc cacgagattt aatgtttcca aggttagacg ttcacttttt gagacgnttg 60
agtagctttt cacttaattg actagcatgt atgggtttct ttaccaggt ccacaattca 120
ctacacaggt ccagaaaaaa agctgatctc tgaaaagcac taggagaagg cagctagaga 180
gggagaattc taattaggcc ggggtcctct gtggcttgaa tgactgaata agtttttata 240
gtcttcaatt cagtgacttc cagattcttc ccaaagaaat ttctagrgat caagagtagg 300
```

ctcttttcgga agtacttgcc cgtattacac ttttaatttta caaaccaaac aacagcaatt 360
caaccaatca aacaacaaaa acaatccaaa gaaagagact tggacatagg catcaaggaa 420
tcatttcact ttataattta atagaacact ggtgtatcat tcattaattc tgaaagtga 480
aactaaatgt aaaataattt tgtaaggttt gtgaattggt gcctaggtag tctggtgatg 540
tttacttttag tgattttatc attaatgaaa gcaatgtggt ttttttagaaa acatattatt 600
agggttcata acgttgacat tctgttggtg caatcataat ctccgtgttt gtttttagtcc 660
tagctctaca gttgaatgaa tccaagctca cctccaggcc ttttgctat 709

<210> 459

<211> 1283

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<400> 459

agcagtctgc cgtggccatg tacatgctct ataagaagca gaagcagcag aacgtggccc 60
actgcatgct ggtaagcaac cgcgtntctc tgggtgggga gcacgctggc catgctgcag 120
cgccttcaag gagcagcagt tcgtnatcgc cgggggtcttg gtggaggaca gcaacaacca 180
ccacctcatg ctggaggcca gcragtgggc caccatcgag gggctggtgg agctcctgca 240
gcccttcaag caggtggccg agatgctgtc ggctccagg taccacacca tcagcatggt 300
gaagccgctg ctgcacatgc tcctraacac cacgctcaac atcaaggaga ccgactccaa 360
ggagctcagc atggccaagg aggtcatcgc caaggagctt tccaagacct accaggagac 420
gcccagagatc gacatgtttc tcaacgtggc cacccttctg gacccccgct acaagaggct 480
gcccttctc tccgccttcg agcggcagca ggtggagaat cgcgtggtgg aagaggccaa 540
gggctgctgg acaagggtcaa agacggcggc taccggcccg ctgaggacaa gatcttccc 600
gtgcccagag agcctcccgt caagaagctc atgaggacat ccacgcccgc gcccgccagc 660
gtcatcaaca acatgctggc cgagatcttc tgccagacag gcggcgtgga ggaccaggaa 720
gagtggcatg cccagggtgg ggaggagctg agcaacttca agtcccagaa ggtgcttggc 780
ctcaacgaag accccctcaa gtggtggtca gaccgcctgg cctcttccc cctgctgccc 840
aaggtgctgc agaagtactg gtgcgtgacg gccaccgct cgcccctgag cgtctcttcg 900
gatccgccgc caacgtggc agcgccaaga ggaaccggct ggctcccgc cagtggaac 960
gagcaggtgt ttctgtatga raacgcccgg agtggggcag aggcggaacc cgaggaccag 1020
gacgargggg artggggcct ggaccaggag caggtgttct ccttggggga tggcgctcasg 1080
gcggtttctt tggcattagg gacagcagct tcctgtagcg aggaagcgtg ttgtcttaca 1140
agtcaccccc gcagcagccc attggatgct ttgctgtaaa tacttaccgc gtcagcttgg 1200
ttttgaacct cagagaccat ccactgtctt tgacacctag aaggtggaaa aaggaaagag 1260
attcgagaag tgagagaggg tcg 1283

<210> 460

<211> 435

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<400> 460

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tgcacccacg cgtcgcgaag tacaaaaacc ttaagtttca tttgtagggc cacagatcat 60
agaatttcaa atgacatatt acatagtttg taaatgtata tatttggttg actgaaactt 120
aatcataatt tagttcttaa aactatgttg cttgaagtgg caagtagcaa gtactgattt 180
taccagattc aagttgattt ttaaaagtaa ccattggaga aatcggtata catttgtttg 240
caggattttt acctcctata actccaccag aaaagttttt tctttcccag ctgatgctgg 300
caccccccacg ggaactcttc aaaaagacgc ctgcgcagat tgcactgatg gacgttgga 360
acatgggcca gtctgtggam attagtgggc tcagttagcc ttggccggta aggrggaayc 420
agtgtttggg nattc 435
```

<210> 461

<211> 654

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<400> 461

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gcgwccgagc cttyggagct cccagcgtcc cctcgggttc aatcctccag gacctgtgtc 60
tgatgcctgc atgtgggtac ctgggctcca tcaggttcta gatcggcctc cgccctccac 120
tttcagggct ccaggccnag cttctcatgt ctgtggggag ggtctccaga gccttggtct 180
gtggctgagc tgtggaactt gaaggcctct ctgcatcttg tcactcgttg cccctgcacc 240
ttgggtcatg acctgcttta tgtggcaacc ctgtgacagc tgctaagtcc tagaaaacac 300
gtaacaggac gtgaggtgcc ctctgcgcgg tgtgggcgcg tgcggggaga cccgggcccc 360
aggacgtgag gtgcctctct cgccgtgcgg gcgcgtgcgg ggagaccgg gccacatgcg 420
agcggggccc cgagacattc tgcactcggg aattgcgggg attatcaaat cccgcttcag 480
tgggaaacgt gagcgaaacc caaggtgagt ggccgcagcc ttctgtcacg tgctctccc 540
catgtcctaa gtragggtc aggtgagct gccgttgccg agagccttgt gtctgtctcg 600
ggtgtctgca ctgtgagtgg ctccgtgctr gcgtccgcac cagccgcttg gggc 654
```

<210> 462

<211> 2245

<212> DNA

<213> Homo sapiens

<400> 462

```
aattacccgg tcgacccacg cgtccattgt cccaatgtgc ccggctcagc ctgaggaagc 60
agtcgctctt ccaggagcca ggtcccgatg tggaggccta gcgccgagga acagtgtctg 120
gcacccgcct ggcccgccag acccaccctg ccaacatcaa gttgttcctt ctgctccgga 180
gacccctggg gtgcgccctt gggccctcc acccctgtg ggccagagcg ggtgggcagt 240
gtcaaggccc gctgtctccc aggtgcttgc tgggactcgg ggccgctgca cctggctgtc 300
acctgggtgt gctgtctgta ggggtccttg cgtggccccc atccttcccc caatgcagaa 360
```

```

ctccatgggc agggagctgg ggggacatct cacctccccc atggcacaga gccctccaca 420
ccccctggacc agggcatccg gggcctagaa attccacagc tcccgtcctg gccaccctgg 480
aagctcatca ggccaagacc cggacagagc ttcagaggag tgttgagtga cacctgagga 540
tgcggtctga cactcagc caagggccga gtctcacctg cgggtgggtt tcggctctgc 600
ctgggggctc catcccttcc agccactcgt ggccttgggg atttctggtt gtccccagct 660
gggactgttc acagtgtgca cctgcagacc tgcctctccc tggcctgagg ttcaaaggcc 720
tcatcggtg gtcagtacag tggggtcacc tgttgtttct atacaacagc aggggaagggg 780
ccatggagct ttccctgct ggggtgctcct gctttggccc agcccacctt tcctggtgct 840
ccaagctagg aggctgtggc cccagcctga ggaggggtgc ctggcctcca gtgtgcagca 900
ggggctgtgt gctgggggag gttccagtta ggcgatggga tcctgcagtg gtctgggtggc 960
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gtccttcaga gaatgtgatg tgaggttgga tcaacagtgt gggttcctgt cctgtttccc 1740
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gtctgcacac gtctcatgaa tgcatacat tctgtcata tggatattag ccattccgaa 1860
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tgctggtatt tgctggacaa aggggttggg cccttttatt ttacctgcc acccagcatc 1980
tccccacct gcccttctg ggtgacacag ccggtaaacg gaatcacgta tggttctttc 2040
tgtgggtctg tggcacagca ggaagagccc sgtgccgcca gcacctgtg gaagaccaca 2100
catgggtggt cccacagcat gggaccaggc tggcctgagg gatgccagt tgtaacaatg 2160
ctgctgtcac tgtctcatta aatatacat ctttaaaaaa aaaaaaaaaa aaaaaaaaaa 2220
aaaaaaaaa aaaaaaaaaa aaaaaa 2245

```

<210> 463

<211> 1280

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1016)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1254)

<223> n equals a,t,g, or c

<400> 463

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gcgagcaacg ctggagcatc ccgctctggg gccgctgcag ccggcagaga tgggtgagct 60
catgttcccg ctgttgctcc tccttctgcc ctctctctg tatatggctg cgcccaaata 120
caggaaaatg ctgtccagtg ggggtgtgtac atcaactgtt cagcttcctg ggaaagtagt 180
tgtggtcaca ggagctaata caggtatcgg gaaggagaca gccaaagagc tggctcagag 240
aggagctcga gtatatattag cttgccggga tgtggaaaag ggggaattgg tggccaaaga 300
gatccagacc acgacaggga accagcagggt gttgggtgcg aaactggacc tgtctgatac 360
taagtctatt cgagctttkg ctaagggtct cttagctgag gaaaagcacc tccacgtttg 420
atcaacaatg caggagtgat gatgtgtccg tactcgaaga cagcagatgg ctttgagatg 480
cacataggag tcaaccactt gggtcacttc ctccaaaccc atctgctgct agagaaacta 540
aaggaatcag ccccatcaag gatagtaaat gtgtcttccc tcgcacatca cctgggaagg 600
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agcaagctag ccaacatcct cttcacccag gaactggccc ggagactaaa aggtctctgc 720
gttacgacgt attctgtaca ccctggcaca gtccaatctg aactgggttc gcactcatct 780
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ctgtgggacg tcagttgtga cctgctgggc ctcccaatag actaacaggc agtgcnaagt 1020
ggacccaaga gaagactgca gcagactaca cagtacttct tgtcaaatg attctccttc 1080
aagggttttca aaacctttag cacaaagaga gcaaaacctt ccagcctggc caacatnggt 1140
gaaaccccac ctctactaaa aattgtgtat atctttgtgt gtcttcctgt ttatgtgttg 1200
ccaagggagt attttcacia agttcaaaac agccacagta antcagagat ggangcaaac 1260
cagtgccatc cagtctttac                                     1280
```

<210> 464

<211> 2431

<212> DNA

<213> Homo sapiens

<400> 464

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gttgtgctga ggccgaggga gtgcgccattt tggatgggtga accctgaagt cgggtgtctgc 60
tgcgttcacg gcaggattcg gttaggagga acagcacagc atgctgggct ctggatttaa 120
agctgagcgc ttaagagtga atttgagatt agtcataaat cgccttaaac tattggagaa 180
aaagaaaacg gaactggccc agaaagcaag gaaggagatt gctgactatc tggctgctgg 240
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ggccatggag atcctggagc tgtactgtga cctgctgctg gctcgggttg gccttatcca 360
gtctatgaag gaactagatt ctggctctggc tgaatctgtg tctacattga tctgggctgc 420
tcctcgactc cagtcagaag tggctgagtt gaaaatagtt gctgacagc tctgtgccaa 480
gtatagcaag gaatatggca agctatgtag gaccaaccag attggaactg tgaatgacag 540
gctaattcac aagctgagtg tggaaagcccc acccaaaatc ctgggtggaga gatacctgat 600
tgaaattgca agaattaca acgtacccta tgaacctgac tctgtggtca tggcagaagc 660
tcctcctggg gtagagacag atcttattga tgttggtatc acagatgatg tgaagaaagg 720
aggccctgga agaggaggga gtgggtggctt cacagcacca gttgggtggc ctgatggaac 780
ggtgccagat gcccatgccc atgcctatgc catctgcaaa tacgcctttc tcatatccac 840
```

tgccaaaggg accatcagat ttcaatggac tgccaatggg gacttatcag gcctttccca 900
atattcatcc acctcagata ccagcaactc ccccatcgta tgaatctgta gatgacatta 960
atgctgataa gaatatctct tctgcacaga ttgttggtcc tggacccaag ccagaagcct 1020
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<210> 465

<211> 589

<212> DNA

<213> Homo sapiens

<400> 465

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<210> 466

<211> 1107

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1099)

<223> n equals a,t,g, or c

<400> 466

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<210> 467

<211> 2197

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (846)

<223> n equals a,t,g, or c

<400> 467

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<210> 468

<211> 3611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3574)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3581)

<223> n equals a,t,g, or c

<400> 468

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<211> 520
<212> DNA
<213> Homo sapiens

<400> 469
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<210> 470
<211> 879
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

<400> 470
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<210> 471
<211> 2557
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<400> 471

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<210> 472
<211> 467
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

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<222> (726)

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<211> 4231

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<221> misc feature
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<222> (1127)

<223> n equals a,t,g, or c

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<222> (1143)

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<222> (1289)

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<222> (1400)

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<223> n equals a,t,g, or c

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<222> (1236)
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<210> 480

<211> 684

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<400> 480

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```

<210> 481

<211> 2995

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1760)

<223> n equals a,t,g, or c

<400> 481

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<210> 482
 <211> 1248
 <212> DNA
 <213> Homo sapiens

<400> 482
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 gtgccagaag actcgggagg accaggaag cagtgaataat gatgagagat ttaatgaagg 240
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 cagtttacct aaagaaggag cttcccttct ttattctctt tactgctgga ttatgttcct 840
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<210> 483
 <211> 1862
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (124)
 <223> n equals a,t,g, or c

<400> 483
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 gttacttata ctaaaaatga gagtacacct ctttctgaag agctagagtt ggataagtgg 360
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aa 1862

<210> 484

<211> 1664

<212> DNA

<213> Homo sapiens

<400> 484

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attactgtat ttttgacaga atggttttga aaactgtgct acagggactg atgtggcaaa 660
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gacttaaatgt gattgttact gttatatcca gcctatactg ctagcagctg ctcatactgc 1560
agtcaattac tggaagcgga tatatttcct atgcaaaaac tgtttaaaca ataaaatgag 1620
ctatgctaca gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1664
```

<210> 485

<211> 969

<212> DNA

<213> Homo sapiens

<400> 485

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agaatatgc 969
```

<210> 486

<211> 2572

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (823)

<223> n equals a,t,g, or c

<400> 486

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```

<210> 487

<211> 1451

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1256)

<223> n equals a,t,g, or c

<400> 487

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```
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cctctgccgc aggtgcttct gggcacccat cctctgcgtt tcatttgcag tgcactgtac 1380
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aaaaaaaaaa a 1451
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<210> 488

<211> 1200

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<400> 488

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gccggggtag tgggccccag tgttgcgctc tctggccgtt ccttacactt tgcttcaggc 120
tccagtgcag gggcgtagtg ggatatggcc aactcgggct gcaaggacgt cacgggtcca 180
gatgaggaga gttttctgta ctttgcctac ggcagcaacc tgctgacaga gaggatccac 240
ctccgaaacc cctcggcggc gttcttctgt gtggcccgcc tgcangcaag aagggggttaa 300
aagtggaatg tatgttgtaa tagaagttaa agttgcaact caagaaggaa aagaaataac 360
ctgtcgaagt tatctgatga caaattacga aagtsctccc ccatccccac agtataaaaa 420
gattatttgc atgggtgcaa aagaaaatgg tttgccgctg gagtatcaag agaagttaaa 480
agcaatagaa ccaaagact atacaggaaa ggtctcagaa gaaattgaag acatcatcaa 540
aaagggggaa acacaaactc tttagaacat aacagaatat atctaagggt attctatgtg 600
ctaataataa atatttttaa cacttgagaa cagggatctg ggggatctcc acgtttgatc 660
cattttcagc agtgctctga aggagtatct tacttgggtg attccttggt tttagactat 720
aaaaagaaac tgggatagga gttagacaat ttaaaagggg tgtatgaggg cctgaaatat 780
gtgacaaatg aatgtgagta ccccttctgt gaacactgaa agctattctc ttgaattgat 840
cttaagtgtc tccttgctct ggtaaaagat agatttgtag ctacttgat gatggtgctg 900
gtgaattgct ctgctctgtc tgagattttt aaaaatcagc ttaatgagag taatctgcag 960
acaattgata ataacatttt gaaaattgga aagatggtat actgttttta gaggaataaa 1020
cgtatttgtg gtttaaaaaa aagagcaact tcctttgcac tgtataccct tttgtattat 1080
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ttgaatatct ttccataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1200
```

<210> 489
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c

<400> 489
tgcctggcac acacgtttct nttccccact tcttttgggg gtgtgcttca ctgcggggtcg 60
ctaacaggat gtctagtgtt cagtgggtgt cacaagattc agtctgcaga gccgacttcc 120
tcagcctcct gaagacactg aacaccgcag tgttttccag tcagcaacgc aacaaaatca 180
gtttaagtga taatgacaat aacaaacaat ccatagcatc cacagcattc actgcttact 240
gnaaaactta ctatgtccca ggcacaagca ctgactttaa tcttg 285

<210> 490
<211> 682
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<400> 490
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cgcccttct gctgcacaca gcccaccag gacctccgc agcgctgaca ggcggggcgg 180
gtgcaaagac ggggcgggg ctctgcgcc ggccccctcc cctgactatc aaagcagcgg 240
ccggctgttg ggggccacca cgcttccac ctgccccact gcttcttcgc ttctctcttg 300
gaaagtccag tctctcctcg gcttgcaatg gaccccaact gctcctgcgc cgctggtgtc 360
tcctgcacct gcgctggttc ctgcaagtgc aaagagtgc aatgcacctc ctgcaagaag 420
agctgctgct cctgctgcc cgtagggctgt agcaagtgtg cccagggctg tgtttgcaaa 480

ggggcgtcag agaagtgcag ctgctgcgac tgatgccagg acaacctttc tcccagatgt 540
aaacagagag acatgtacaa acctggattt tttttttata ccaccttgac ccatttgcta 600
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aaaaaaaaaa aaaaaaaaaa aa 682

<210> 491

<211> 1859

<212> DNA

<213> Homo sapiens

<400> 491

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aaaaaatgaa agacgctctg tttaaaacaa tgatgacagc agtacttaat atgtatttcg 180
aggtgaactt atatagattg agagaggctg catttggcag actgatgtat aggaagaccc 240
atgtgtttct agcttctccc tgcagggaaa atgctttcgt cattatagcc tctttacaca 300
gactggccat tctagtgaac aggtggtaaa cctttgggct gccagaaac attttatctg 360
ktttcaacta cctaggaagg ggaaagatta gcgggtcatc caaaatctgt atgtaagcta 420
tcttcatttt cttccccaac cttctcctcc tgggaaacac aaatgctatc tcacttgaca 480
aaaggtttta gaggataaag ctgaaaagat tggattggga tctttttgtg gcttggggcg 540
gactttttgc taaaatctca agaatgctgc tttgagttta gctaggggtg ctctcagaac 600
tgggggtgcct ggcattctca gcatttctca ggggcctccc acctctgaca actgcagtgt 660
tagctaatac ataccttgag catagaactg aatgctgtaa ttcagagcca tttttttttt 720
caacttgaac attgtacaat tttactgcaa tttcctttga actttcttgc cactgttttg 780
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ctattgattt ccatatgcaa taaacctttt tttcagagaa aaaaaaaaaa aagtcgagc 1859

<210> 492

<211> 2709

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2160)

<223> n equals a,t,g, or c

<400> 492

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gatgagttca ttgagagtat ttcccttctg ccggaacctg agaagaccct gcacactgaa 180
gatacagatc accagcacac tgcaagccat ggggaggaag aagccctaaa agaagatccc 240
cctagaaatc tcctggaaga gaggaatca gatcaactgg ggctgcctca gaccttgagc 300
caggaattct ccctgatcaa tgtgcaaadc cggaatgtca atktggagat ggatgaggca 360
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ttccctgcac agtaccctaaa caacgcccgc ccttccttcc agtttattaa cccacacacc 480
atcacatcca ccatgaaagc taagctgctg aagatcctga aggacacagc cctgcagaaa 540
gtgaagcgtg gccagagctg cctggagccc tgcctgcgcc astcgtctcc tgccttgagt 600
cckktgtgaa ccaggwagac agcgttcca gcaaccggtt tgcactcccc aactctgtca 660
ctccccctt accgacgttt gccgggtgac cacggcttac gggctcgtacc aggacgcaa 720
cattcccttt cctaggactt ctggggccag gttctgcgga cagkttacct ggtatatttc 780
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attcttaaga tgtatttttt tgttatttct cctccagctg ctatcccttg gctaataaaa 2640
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2709

<210> 493

<211> 1451
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1307)
<223> n equals a,t,g, or c

<400> 493
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acttgtttga ctgtctcctg gttgcaggag gaccagtatg atcatttgga tgctgctgac 120
atgacaaagg tagaaaaaag cacaaatgaa gcaatggagt ggatgaataa caagctaaat 180
ctgcagaaca agcagagttt gaccatggat ccagttgtca agtcaaaaga gattgaagct 240
aaaattaagg agctgacaag tacttgtagc cctataattt caaagcccaa acccaaagt 300
gaacctccaa aagaggaaca aaaaaatgca gagcagaatg gaccagtggg tggacaagga 360
gacaaccag gcccccaggc tgctgagcag ggtacagaca cagctgtgct tcggattcag 420
acaagaagct tcctgaaatg gacattgatt gattccaaca cttgtttcta ttaaacaga 480
ctattataaa gctttaagtt gtcaactttg ttctaaatat caactagcgc aagtgaatac 540
tgaagatttc ttagtcagtt tttaggggat tttcggggag gggaaatagg taatgtatgg 600
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accatgtgtc tacaagaata agtttgtttt ggaaagttga gctatagcta cagctctagc 780
tatccagcag acttttcatt atgacttaca tggcaggagc tctaattatg ctttaaaaaat 840
ctgttggtga gattgcttta aatgctccct gcctgggtgtg gggatggggg cccctctctt 900
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tatggcgag tgaccgtgga gacctccggt taggggcccc ctcccgtta agcgccgcac 1380
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tcaattcgca c 1451

<210> 494
<211> 1268
<212> DNA
<213> Homo sapiens

<400> 494
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ttgcagaatg gcctggtgag ttgggcagag gttggatgga cagaaacaaa cacacagaga 120
gtgaagtcca aggacgtgg tcttctttct ccctttgtag agtgaggatg aagctctgca 180
gcgggccctg gaaatgtccc tggcagaaac caaacccag gttccaaggt acctaccct 240
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tactaatacc caccttgtag tgttgctatg aagattgaga taatcctcag cagtgtcag 480
caccatgagg cccaacacac acagatcaga tgttcaaatt tcagatctta ccatcatcca 540

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atgctgcagt ggaagggagg aagaagtcag ggatgggggt tcttcctagt ggtgcagagt 720
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gaaaaaataa aggatcttgg cagttgataa aacgtaaaaa aaaaaaaaaa aaaaaaaaaa 1260
ggggggggg                                     1268
```

<210> 495

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<400> 495

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ccctaggtgt tgaggaattc ccagttcaca atctcctgag cagtgcgtgg catctacaga 180
gaggcccgty ttttcctttt cattaagaca ggtctctgtg tgcctaggct ggagctcagt 240
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ccccggcccc agtagctggg accccaggca tgcaccatta caaccaacta attttttttn 360
atttttaatt aatttccttt gnga                                     384
```

<210> 496

<211> 975

<212> DNA

<213> Homo sapiens

<400> 496

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aacctcatct tcagatactt acaaaataga tcgcggattc aggtgtggct ctatgagcaa 180
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tgagaaattg ttgagaagga tacagtttgt ttttagatgt ctttgtcca atgtgaacat 420
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ttattcatat tgttttgatt accctcgtgt tactacaaga tggcaataaa tactatggga 480
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tcmctgtgag gtcttkgtga attttatcgc taagatcaga atgtgagaag tatttgata 900
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agagactgag attgg 975

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<210> 497

<211> 2075

<212> DNA

<213> Homo sapiens

<400> 497

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caccggcggtg tgttcaccct cccgggtggc tcacacactc tcattcacac acacaaatct 180
caggaacaaa cgggtcccaga gtccctccga cccctgccca gggctctctgc aggtctctgc 240
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cagcaggact ccgccagtct gatgccagga ctgaataaag tgtatttgcc ccgacctgac 540
cctgtggttc tgcatgtctg tgctcttctc caaccctccc taaacagttt gccagattca 600
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cctctatgtc aggactccct ggccttcacg aagaatagca aactcatccc tgtagggacc 720
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ggcctacctc ctgccagttg tgacctgtg gaatgcagtc cacagtggcc aggtggccag 840
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tattttaaaa tttctgtggg ccaaatgaaa caagtatgca ggcagggtctg gtccgagggg 960
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2075

<210> 498

<211> 1904

<212> DNA

<213> Homo sapiens

<400> 498

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<210> 499

<211> 2871

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1642)

<223> n equals a,t,g, or c

<400> 499

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<210> 500

<211> 1624

<212> DNA

<213> Homo sapiens

<400> 500

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aaaa 1624

<210> 501

<211> 848

<212> DNA

<213> Homo sapiens

<400> 501

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<210> 502

<211> 3192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3085)

<223> n equals a,t,g, or c

<400> 502

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<210> 503

<211> 683

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (622)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (648)

<223> n equals a,t,g, or c

<400> 503

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<210> 504

<211> 2196

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2196)

<223> n equals a,t,g, or c

<400> 504

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<210> 505

<211> 949

<212> DNA

<213> Homo sapiens

<400> 505

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<210> 506

<211> 365

<212> DNA

<213> Homo sapiens

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<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (361)

<223> n equals a,t,g, or c

<400> 506

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aagcctctgc gggaagtccg ccatgttctt cgagatatc ggtacccaat tcgccctata 300
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<210> 507

<211> 2059

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<400> 507

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atgtgatttt cccattatga agttttcact ctacttcttg gcttatgagg ataaaaatga 360
catccctaaa gaaaaagatg aaaaaatagc ctgggcgctc tccagaaaag ctacacttga 420
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<210> 508

<211> 1337

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (726)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<400> 508

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ggttcagacc cctttgtgaa aatccagctg gtgcatggac tcaaacttgt gaaaaccaag 360
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<210> 509

<211> 731

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (720)

<223> n equals a,t,g, or c

<400> 509

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<210> 510
<211> 944
<212> DNA
<213> Homo sapiens

<400> 510
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<210> 511
<211> 517
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

<400> 511
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<210> 512
<211> 3651
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (1283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3641)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3650)
<223> n equals a,t,g, or c

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<210> 513

<211> 1936

<212> DNA

<213> Homo sapiens

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<210> 514

<211> 1177

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 514

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<210> 515

<211> 932

<212> DNA

<213> Homo sapiens

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 <222> (880)
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<220>
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 <222> (911)
 <223> n equals a,t,g, or c

<220>
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 <222> (912)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (921)
 <223> n equals a,t,g, or c

<400> 515
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<210> 516
 <211> 1159
 <212> DNA
 <213> Homo sapiens

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<210> 517

<211> 2451

<212> DNA

<213> Homo sapiens

<400> 517

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<211> 989

<212> DNA

<213> Homo sapiens

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<222> (336)

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<220>

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<222> (871)

<223> n equals a,t,g, or c

<220>

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<222> (891)

<223> n equals a,t,g, or c

<220>

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<222> (910)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (913)

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<221> misc feature

<222> (926)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (947)

<223> n equals a,t,g, or c

<400> 518

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<210> 519

<211> 3315

<212> DNA

<213> Homo sapiens

<400> 519

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<210> 520

<211> 2361

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2121)

<223> n equals a,t,g, or c

<400> 520

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<210> 521

<211> 2521

<212> DNA

<213> Homo sapiens

<220>

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<222> (1721)

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<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2516)

<223> n equals a,t,g, or c

<400> 521

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<213> Homo sapiens

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<222> (1279)
<223> n equals a,t,g, or c

<220>
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<222> (1286)
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<210> 523
<211> 1100
<212> DNA
<213> Homo sapiens

<400> 523
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<210> 524

<211> 1963

<212> DNA

<213> Homo sapiens

<400> 524

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<210> 525

<211> 794

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (782)

<223> n equals a,t,g, or c

<400> 525

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<210> 526

<211> 2599

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2410)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2461)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2500)

<223> n equals a,t,g, or c

<400> 526

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<210> 527

<211> 1305

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1293)

<223> n equals a,t,g, or c

<400> 527

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<210> 528

<211> 1631

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1628)

<223> n equals a,t,g, or c

<400> 528

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<210> 529

<211> 1944

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (568)

<223> n equals a,t,g, or c

<400> 529

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<211> 1425

<212> DNA

<213> Homo sapiens

<220>

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<222> (1409)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1411)

<223> n equals a,t,g, or c

<400> 530

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<210> 531

<211> 1466

<212> DNA

<213> Homo sapiens

<400> 531

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<210> 532

<211> 1658

<212> DNA

<213> Homo sapiens

<400> 532

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<210> 533

<211> 2857

<212> DNA

<213> Homo sapiens

<400> 533

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<211> 1335

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1334)

<223> n equals a,t,g, or c

<400> 534

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<210> 535

<211> 2818

<212> DNA

<213> Homo sapiens

<400> 535

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<210> 536

<211> 1397

<212> DNA

<213> Homo sapiens

<400> 536

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<211> 1233

<212> DNA

<213> Homo sapiens

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<222> (1111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1202)

<223> n equals a,t,g, or c

<400> 537

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<210> 538
<211> 1016
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

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<210> 539
<211> 1679
<212> DNA
<213> Homo sapiens

<400> 539
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<210> 540

<211> 1080

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (970)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (978)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1027)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1044)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1067)

<223> n equals a,t,g, or c

<400> 540

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<210> 541

<211> 2259

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2247)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2253)

<223> n equals a,t,g, or c

<400> 541

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<210> 542

<211> 1347

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1290)

<223> n equals a,t,g, or c

<400> 542

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acttgaata tattcagcga aacttacctg aaggggttgc catggaagta acaaagacac 540

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<210> 543

<211> 1901

<212> DNA

<213> Homo sapiens

<400> 543

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aataaccctt cggcattagc tatgcatgag tgtaaattgtc tttggccaga tgtgccgtta 720
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gcatagcaca gagaatattc ttggttacag aattcatatg ggaactaggc ttttaagatg 1320
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tcaaccactt tttaccctg aaatttcaag ataatgctat attaaacttt ccagatctaa 1800

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cactagctta ttcttcctg ttataaaatg gtttgaactt actgaggaga tattcctatc 1860
attaacaaaa ataaactatt taaataawaa aaaagtcgac g 1901

<210> 544

<211> 842

<212> DNA

<213> Homo sapiens

<400> 544

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aggcggtgac taaggctcag aagaaggacg ggaagaagcg caagcgacgc cgcaaggaga 180
gctattcagt gtatgtgtac aagggtgctga agcagggtcca tcccgcacacc ggcatctctt 240
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gcacactggt tcatcaaaaag aaggttaccg aggggaagga actaaagggtg tttgcacttc 660
atgttacttt ttgagtttat aaacataaaa acagaattta cttctgttac agacctagtt 720
actgggaatt cattacttgc catggactac ctttgctaag aaaagtctga atgagaagat 780
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aa 842

<210> 545

<211> 778

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<400> 545

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accgggtcca gacccacgcg gcgccagttc tccggcggga aggaaaaccg cgcagagagg 180
cagcaatgaa tgtggatcac gaggttaacc tcttagtgga ggaaattcat cgtttgggtt 240
caaaaaatgc tgatggaaag ttaagcgtga aatttggggt cctcttcctg gatgataaat 300
gtgccaacct ctttgaagca ttggtaggaa ctcttaaagc tgcaaaacga aggaagattg 360
taacatatcc aggagagctg cttctgcaag gtgttcatga tgatgttgac attatattac 420
tgcaagatta atgtggttta catatcttta tgtactgcca ttttttgttt ctggtaaact 480
ggaatataaa gtgaaagaac aaacatttga acatacttaa tgtattttta tagaactttg 540
taaacgaaag gagattcatg ttttagaagt ctgtcctttt ttatatcttg aaagaaaatc 600

tatgtatgat gctataaaat aaatcctatt attttctmag natmtggttg anattctgcg 660
aaagcaacaw gcaaactgaa gaccaactcc tatgagaaat attatgatgt ttatgtaata 720
aagacatgta actgtcttaa awwaaaaaa aaaaaaaaaa aaaaaaaaaa 778

<210> 546

<211> 2142

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<400> 546

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aagtcagatc atgaagaact ttcaggctcc tccacaaatc tcgctgacca taacccttct 180
tcttggcgag accacgatga tgcaacctca acccactcag caggncaccc cagggccctc 240
cagtgggggc catgcttccc agagcggaga caacagcagt gagcaagggg atggttttaga 300
caacagtgtg gcttcacctg gtacagtgcg cgatgatgat ccggataagg acaaaaaacg 360
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aggacttaca attctccaag taaacaactg gtttattaat gccagaagaa gaatagtaca 540
gcccattgatt gaccagtcaa atcgagcagg ttttcttctt gatccttcag tgagccaagg 600
agcagcatat agtccagang gtcagcccat ggggagcttt gtgttgatg gtcascaaca 660
catggggatc cggcctgcag gtttgagag catgccagg gactacgttt ctcagggttg 720
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gttttcatgc ccggcctttg ttcctccata aatgtgtcct ttagtttcaa acagatcttt 1560

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gcttgccaat gaagatttaa agacagagca ggagcttctt ccaggagttc tgagccttgg 1680
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aagaaaatgc tgttaccttt aagctttgtc aaatttacat taaaatactt gtatgaggac 2040
tgtgacgtta tgttaaaaaa aaaagggtgt aagtcacaaa aagcggtaat aaatatttca 2100
tttttgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaactc ga 2142

<210> 547

<211> 1893

<212> DNA

<213> Homo sapiens

<400> 547

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agcatgaatt ggaactgcaa tgaaagtcaa atttacttta aaaagaaatt aatatggctt 180
caccaagaag caaagttaa cttatttcat aattgcctac atttatcatg gtcctgaatg 240
tagcgtgtaa gcttgtgttt cttgggcagt ctttcttgaa attgaagagg tgaaatgggg 300
gtggggagtg ggaggaaagg tgacttcctc tgggtgtttat tataaagctt aaattttata 360
tcattttaaa atgtcttggg cttctactgc cttgaaaaat gacaattgtg aacatgatag 420
ttaaactacc acttttttta accattatta tgcaaaattt agaagaaaag ttattggcat 480
ggttgttgca tatagttaa ctgagagtaa tcatctgtg aatctgcttt aattacctgg 540
tgagtaactt agaaaagtgg tgtaaacttg tacatggaat tttttgaata tgccttaatt 600
tagaaactga aaaatatcyg gttatatcat tctgggtgtg ttcttactga caccaggggt 660
ccgctgcccc atgtgtcctg gtgagaaaat atatgcctgg cacagctttt gtatagaaaa 720
ttcttgagaa gtaactgtcc gctagaagtc tgtccaaatt taaaatgtgt gccatattct 780
ggttcttgaa aataagattc cagagctctt tgatcgcttt taataaactg caagttcatt 840
ttaaataaag ggccagcata tatacttgca agataatttt cagctgcaag gattcagcac 900
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ctctcctggg tactgaggtg ctatgaagcc aactgacaaa gatgcatcac gtgtcttagg 1800
ctgatgccac taccgattt gttattttgc aatttgagcc atttaaagac caataaactt 1860
ccttttttaa aaaaaaaaaa aaaaaaaaaa aaa 1893

<210> 548

<211> 630
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<400> 548
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naaccagcca gggggaaagg ggaggtttcc ggtgtcagct gtctctgggt gtctccataa 120
ccagttctta cttgcctgtg cagactttga ggggaagggt gtgaagactt cggttgtgtt 180
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tgtggttgac agcgctgccc tcgatgtggt catgaaggaa tggcatacca caccagacag 300
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gagaaggaaag actcttgacc tttttcctgg gcaactctrc agtccctccc tcctttcggg 420
aggtgaaggga tactgggttt ttagatgcct tgtccatcct gtctgggtgc aatgttttgc 480
tcccagaaga gaatcagatc atcatgtggg gattaccatt gttcctggag tactcctacc 540
cttagttgaa tttccttatt aaagttatat ttttctataa gaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 630

<210> 549
<211> 586
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (508)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (510)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c

<400> 549

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ccccataaaa gggctccaag aaagccgtca ccaaagccca gaagaaagac ggcaagaagc 120
gcaagcgagc ccgcaaagag agctactcca tctacgtgta caagggtgctg aagcagggtcc 180
accccgacac cggcatctcg tccaaggcca tgggcatcat gaactccttc gtcaacgaca 240
tcttcgagcg catcgsggga gaggcttccc gcctggcgca ctacaacaag cgctccacca 300
tcacatcccg cgagatccag acggccgtgc gcctgctgct gcccggcgag ctggccaagc 360
acggcgtgtc cgagggcacc aaggcgggtca ccaagtacac cagctccaag tgagtccctg 420
ccgggacctg gcgctcgctc gctcgagtcg ccggtgctt gactycaaag gctcttttca 480
garccacca cctaatact agaaaarnan cttngttcac ttaatttccc ctttaatttc 540
ttttccata aaargttaag ttaattttta agnggtgaaa ggntca 586
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<210> 550

<211> 1586

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1574)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1578)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1585)

<223> n equals a,t,g, or c

<400> 550

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gccatgtcgc agaacggagc gcccgggatg caggaggaga gcctgcaggg ctctgggta 180
gaactgcact tcagcaataa tgggaacggg ggagcggttc cagcctcggt ttctatttat 240
aatggagaca tggaaaaaat actgctggac gcacagcatg agtctggacg gagtagctcc 300
aagagctctc actgtgacag cccacctcgc tcgcagacac cacaagatac caacagagct 360
tctgaaacag ataccatag cattggagag aaaaacagct cacagtctga ggaagatgat 420
attgaaagaa ggaagaagt tgaaagcatc ttgaagaaaa actcagattg gatatgggat 480
tgggtcaagtc ggcggaaaa tattcccccc aaggagttcc tctttaaca cccgaagcgc 540
acggccaccc tcagcatgag gaacacgagc gtcatgaaga aagggggcat attctctgca 600
gaatttctga aagttttcct tccatctctg ctgctctctc atttgctggc catcggattg 660
gggatctata ttggaaggcg tctgacaacc tccaccagca ccttttgatg aagaactgga 720
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gatcaataag catgtcagac tgattaatgt ctactgtgaa aatttggtag taaattttca 960
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tactaaagaa agattatata taactatgct aattgttcat aatcaacaga aaccaagata 1260
gagctacaaa ctcagctgta cagttcgtac actaaactct tcttgctttt gcattataag 1320
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gttcaacttt tgtgtgcttt taaaatcagc tttattctaa gcaaactctgt gtctacttta 1500
aaaaactgga aatggaaaaa aaaataaatc tttgccaaat cctaaaaaaaa aaaaaaaaaa 1560
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<210> 551

<211> 2143

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2086)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2097)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2140)

<223> n equals a,t,g, or c

<400> 551

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cgtttgaggg gtcacaaaga agggattgta cagactgaac agattagggtc tttgtctgaa 180
gctatgtcag tggaaaaaat tgctgcaatc aaagccaaaa ttatggctaa gaaaagatct 240
actatcaaga ctgatctaga tgatgacata actgccctta aacagaggag ttttgtggat 300
gctgaggtag atgtgacccg agatattgtc agcagagaga gagtatggag gacacgaaca 360
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gtggatccca ctttgccgac caaacagcct atcccagctg cctataacag atacgatcag 540
gaaagattca aaggaaaaga agaaacggaa ggcttcaaaa ttgacactat ggggaacyta 600
ccatggatatg aacttgraat ctgtaacgga ggggtgcatct gcccgaaga ctcagactcc 660
tgcagcccag ccagtaccaa gaccagtttc tcaagcwaga cctcccccaa atcagaagaa 720
aggatctcga acaccatta tcataattcc tgcagctacc acctctttaa taaccatgct 780
taatgcaaaa gaccttctac aggacctgaa atttgtccca tcagatgaaa agaagaaaca 840
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attgaactgt tcagcctttt caagatttct ttatttacia atgattacat ttaaataaat 1860
gtacattctt ctactgact ttggtgattt tgaaacctag aatgatgtgt ttctatctgt 1920
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attttttatt ttgggagcca gagtatgatt tgggggaaga atatgtatca gccctattgc 2040
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<210> 552

<211> 1634

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1566)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1608)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1629)

<223> n equals a,t,g, or c

<400> 552

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<211> 278

<212> DNA

<213> Homo sapiens

<400> 553

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<210> 554

<211> 2658

<212> DNA

<213> Homo sapiens

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<222> (2128)

<223> n equals a,t,g, or c

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<210> 555

<211> 1728

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1525)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1642)

<223> n equals a,t,g, or c

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<210> 556

<211> 3355

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

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<210> 557

<211> 1079

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (641)
<223> n equals a,t,g, or c

<220>
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<222> (1042)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (1055)
<223> n equals a,t,g, or c

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<211> 724
<212> DNA
<213> Homo sapiens

<400> 558

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<211> 3125

<212> DNA

<213> Homo sapiens

<400> 559

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<211> 2645

<212> DNA

<213> Homo sapiens

<400> 560

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<211> 1717

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<400> 561

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<211> 2417

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2398)

<223> n equals a,t,g, or c

<400> 562

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<211> 1544

<212> DNA

<213> Homo sapiens

<400> 563

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<211> 2299

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<400> 564

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<211> 364

<212> DNA

<213> Homo sapiens

<400> 565

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<210> 566

<211> 2481

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1214)

<223> n equals a,t,g, or c

<400> 566

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<210> 567

<211> 1364

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1362)

<223> n equals a,t,g, or c

<400> 567

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<210> 568

<211> 1606

<212> DNA

<213> Homo sapiens

<400> 568

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<210> 569

<211> 1385

<212> DNA

<213> Homo sapiens

<400> 569

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<210> 570

<211> 1144

<212> DNA

<213> Homo sapiens

<400> 570

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1144

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<210> 571

<211> 2754

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2610)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2611)

<223> n equals a,t,g, or c

<400> 571

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<210> 572

<211> 2657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1285)

<223> n equals a,t,g, or c

<400> 572

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ctcagatgtc cagagctggc aaaagggtga gcaggcagca gcttgggcac cagcctatct 2580
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<210> 573

<211> 2352

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2096)

<223> n equals a,t,g, or c

<400> 573

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atcctgacat cgaggcccag gagagaggag tccggtgtct acttgagaaa cagctcccca 180
atggcgactg gccgcaggaa aacattgctg gggcttcaa caagtcctgt gccatctcct 240
acacgagcta caggaacatc ttccccatct gggccctcgg ccgcttctcc cagctgtacc 300
ctgagagagc ccttgctggc caccctgag aacatgccta cctgctgggt gccgtctgtg 360
cgttccagtg aggccaagg gtcctggccg gggtggggag ccctcccata accctgtctt 420
gggctccaac ccctcaacct ctatctcata gatgtgaatc tgggggcca gctggaggca 480

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```

gggatgggga caggggtgggt ggcttagact cttgattttt actgtaggtt catttctgaa 540
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cagcgccttc tgccacctct gggcacggcc tcaaggtagt gaggctagga ggttttttct 660
gaccaatagc tgagttcttg ggagaggagc agctgtgcct gtgtgattcc ttagtgtcga 720
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aaaaagtcga cc 2352

```

<210> 574

<211> 328

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<400> 574

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acagctgaaa acaagaactt caccgggtggg caggcaagaa ttctcttctg gaaaatgacg 180
tttgtggctc tttcccaagt tggccttcaa agagcctgcc tgcygttgag ccagaagatg 240
tctcgtgtga aggctggggg ggcggctgtc ttggaacctc tgtgagcagg aggccctaag 300
ccgcagcagt ggatagaggt gcagatct 328
```

<210> 575

<211> 1678

<212> DNA

<213> Homo sapiens

<400> 575

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agcgggtctcg ccgcccggcg gaccttcctg ctgcagggtc tgttgcggct gctgaaagcc 180
ccggcattgc ctctcttgtg ccgcggcctg gccgtggagg ccaagaagac ttacgtgcgc 240
gacaagccac atgtgaatgt gggtagcatc ggcatgtgg accacgggaa gaccacgctg 300
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gagattgaca atgccccgga ggagcgagct cggggatatca ccatcaatgc ggctcatgtg 420
gagtatagca ctgccgcccg ccaactacgc cacacagact gcccgggtca tgcagattat 480
gttaagaata tgatcacagg cactgcaccc ctgcagggct gcatcctggg gtagcagacc 540
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cctgcttcca gtaccctctc atggcatagg ctgcaaccca gcagaggga gctagatgga 1560
catttcccct gctcggaagg gttggcctgc ctggctgggg aggtcagtaa actttgaata 1620
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```

<210> 576

<211> 2508

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (2443)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2464)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2472)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2494)
<223> n equals a,t,g, or c

<400> 576

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tccagaagag ctggatattc tttcgcccag ttatggcaga caagttaacg agaattgcta 180
ttgtcaacca tgacaaatgt aaacctaaaga aatgtcgaca ggaatgcaaa aagagttgtc 240
ctgtagttcg aatgggaaaa ttatgcatag aggttacacc ccagagcaaa atagcatgga 300
tttccgaaac tctttgtatt ggttgtggta tctgtattaa gaaatgcccc tttggcgctc 360
tatcaattgt caatctacca agcaacttgg aaaaagaaac cacacatcga tattgtgcca 420
atgccttcaa acttcacagg ttgcctatcc ctgctccagg tgaagttttg ggattagttg 480
gaactaatgg tattggaaa tcaactgctt taaaaatttt agcaggaaaa caaaagccaa 540
accttgaaaa gtacgatgat cctcctgact ggcaggagat tttgacttat ttccgtggat 600
ctgaattaca aaattacttt acaaagattc tagaagatga cctaaaagcc atcatcaaac 660
ctcaatatgt agaccagatt cctaaggctg caaaggggac agtgggatct attttgacc 720
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cccttttggc tggcatgaat aaatttttgt ctcagcttga aattacattc agaagagatc 1860
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ttattaaaag gagtatttac tagaattttt tgtcatataa aacttgaatc aggattttat 2040
gccccacata ctctggaact tgaagtataa tataactaat ataacataaa aagccagttg 2100
ggttctaaat tgtagttaa acacagaaaa tgccactttt ctgttcctga agaggctctt 2160
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tggtgctcca ttttttaaatt cttgaaaagg gtttctgtac ttacctggtt tgccaagtat 2340
gccagtgtaa tgaaactgcc cttattttta aagccagtca aagattccac tgattgacat 2400
ttgataaata aacatcagga ttawgtttat gttggtttcc acnccttggc ctattttacca 2460
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```

<210> 577

<211> 1531

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1525)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1530)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1531)

<223> n equals a,t,g, or c

<400> 577

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cgtggggcgc ctactactca cactactacc agcascccc gggccccgct cccggccccg 120
caccggcccc tgcggccccc cggtcaggg tgagccccctc agccccccacc caccggccag 180
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```

tcggactaca ctaaggcctg ggaagagtat tacaaaaaga tcggccagca gccccagcag 240
cccgagcgc cccacagca ggactacacg aaggcttggg aggagtacta caagaagcaa 300
gcgcaagtgg ccaccggagg ggtccaggag ctccccagcag ctcccagcca gactacagtg 360
ccgcctgsg aatattacag acagcaggcc gcttactacg gacagacccc aggtcctggc 420
ggcccccagc ngncnccac gcagcaggga cagcagcagg ctcaatgaat cgaatgaatg 480
tgaacttctt catctgtgaa aaatcttttt tttttccatt ttgttctgtt tgggggcttc 540
tgttttgttt ggcgagagag cgatggctgc cgtggggagt actggggagc ctcgcggcaa 600
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cacatgcttt ttctttcaaa attgggatcc ttccatgttg agccagccag agaagatagc 720
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agcagaactt ataaaattat atatataat attaaaaagt ctctattctt cccccccag 840
ccttcctgaa cctgcctctc tgaggataaa gcaattcatt ttctcccacc ctcggccctc 900
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aaaaaaaaaa aaaaaaaaaa aaaaanaaan n 1531

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<210> 578

<211> 1244

<212> DNA

<213> Homo sapiens

<400> 578

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gaatacaatt catggaaatt ttacctaac ttggcatggg gttcatggag ctgaggttag 180
gaggcccaga actggagagc taaggcatac ttcatcagct tagcacatga cgactgtctc 240
tccagactgc gtggagtgc tggcggtgtc agacaacaca gttcgtgctg gcctgacacc 300
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cacaccaca acccagacac caatccctct gcaacgtggg ggcgtgctct tcattggggc 600
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<210> 579
<211> 2525
<212> DNA
<213> Homo sapiens

<220>
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<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c

<400> 579
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<210> 580

<211> 4006

<212> DNA

<213> Homo sapiens

<400> 580

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<210> 581

<211> 565

<212> DNA

<213> Homo sapiens

<400> 581

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<210> 582

<211> 2528

<212> DNA

<213> Homo sapiens

<400> 582

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<210> 583

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<400> 583

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<210> 584

<211> 1931

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1871)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1899)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1907)

<223> n equals a,t,g, or c

<400> 584

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1931

<210> 585

<211> 1020

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1006)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1018)

<223> n equals a,t,g, or c

<400> 585

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<210> 586

<211> 767

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<400> 586

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<210> 587

<211> 847

<212> DNA

<213> Homo sapiens

<400> 587

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<210> 588

<211> 2158

<212> DNA

<213> Homo sapiens

<400> 588

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<210> 589

<211> 2299

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<400> 589

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cttcttttgt ttggtagaaa attatccttt tctaaaact gracmatggc acaacctctg 2220
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tggagaagat gcaggccca 2299

<210> 590

<211> 2180

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1353)

<223> n equals a,t,g, or c

<400> 590

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cccgggccgt gcaaggcatg ctggactttg actatgtctg ctcccagagc gagccctcag 180
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tgaactatgc ccagatccgg accatcgcca tcatagctga aggcattccct gaggccctca 420
cgagaaagct gatcaagaag gcggaccaga agggagtgac catcatcgga cctgccactg 480
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tcctggcctc caaactgtac cgccaggca gcgtggccta tgtctcacgt tccggaggca 600
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aaaaaaaaa aaaaaaaaaa 2180

<210> 591

<211> 1193

<212> DNA

<213> Homo sapiens

<400> 591

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gctccactcc acccagtgtc acatcaaaga gccgggtgag ccggctggct ggtaggaaaa 180
caaatgaatc tgtgagttag ccccgaaaag gctttatgta ttccagaaac acaaatgaaa 240
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cattacaaat agcctgggtt ggtgggttta tagccatttc catcatcagt ttctgtctc 480
tgctgggggt tatcttagtg cctctcatga atcggtgtt tttcaaattt ctctgartt 540
yccytgtggc actggccgtt gggactttga gtggtgatgc ttttttacac cttcttccac 600
attctcatgc aagtcaccac catagtcata gccatgaaga accagcaatg gaaatgaaaa 660
gaggaccact tttcagtcac ctgtcttctc aaaacataga agaaagtgcc tattttgatt 720
ccacgtggaa ggtcttaaca gctctaggag gcctgtatct catgtttctt gttgaacatg 780
tcctcacatt gatcaaaaaa tttaaagata agaagaaaaa gaatcagaag aaacctgaaa 840
atgatgatga tgtggagatt aagaagcagt tgtccaagta tgaatctcaa ctttcaacaa 900
atgaggagaa agtagatata gatgatcgaa ctgaaggcta tttacgagca gactcacaag 960
agccctccca ctttgattct cagcagcctg cagtcttggg agaagaagag gtcacgatag 1020
ctcatgctca tccacaggaa gtctacaatg aatatgtacc cagagggtgc aagawtaaat 1080

gccattcaca tttccacgat acactcggcc agtcagacga tctcattcac caccatcatg 1140
actttttcaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaacaaaaa aaa 1193

<210> 592

<211> 2002

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1914)

<223> n equals a,t,g, or c

<400> 592

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cttaagcaga cttctcagtt ttttttcctc ttctccaatt atcctgtagg aaattcacag 120
tatggccaac agcaagatgc ataccaggga ccacctccac aacagggata tccaccccag 180
cagcagcagt acccagggca gcaaggttac ccaggacagc agcaggggcta cggtccttca 240
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ggatatagac caacacagcc tggaccacca cagccacccc agcagaggcc ttatggatat 360
gaccagggac agtatggaaa ttaccagcag tgaaaaagta cttacattcc agtagccagt 420
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taaatttgaa taagcagaac atactgttct caacatactg taatcaaaag gggnaatttc 1920
agtgggtctc tgtgtgtgta tgagagagag agtgtgtgtt tgtgtgtttc aaggtcagaa 1980
caggtttttt ggttttggtt tt 2002

<210> 593

<211> 1014

<212> DNA

<213> Homo sapiens

<400> 593

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agttgggaaa tcctagagca accatatctg ttactttcca tcctggttat atttcttaat 180
tagactgcga gttctgaatg aagtcctttt taaatagagc agttaatgcc atttctgtct 240
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<210> 594

<211> 333

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<400> 594

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ggccccctc tgcttttgag cttctcctct gctccaacag acaccttcca ctctgaggtc 120
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cgagacccac catccttcca tcctgaggac cggcccaacc ctcggagccc cccactcagt 240
angtctgaaa gggcttcatt tggaccgaaa caaccgggtt aaccttacia gncttctaag 300
gcttccttaa ggaacctttc aaccaaancc ttc 333
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<210> 595

<211> 1120
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (585)
<223> n equals a,t,g, or c

<400> 595
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ctccccggcc cttttgtgg gagcgagag atctgtcaac atggaaaacc tctgctgagg 120
atgcattccga gtttggaac ccacttaag ggatggagcc tgggggatca cattaaacgg 180
aaaatgccaa cgacttctac cacctctacg cgtttttagt ttttcatttt ctccaaggaa 240
gcgcagaaag cctgtggagt aattgtaact agaggagaa cggaaagctg aggtgactgc 300
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cttctgtagt ttaaaaatgc cacagtccac ggcccggctg gcaccgctcg cctgaatcgt 480
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ttcctattaa aaaattacca ataacagtgg aaaaaaaaaa 1120

<210> 596
<211> 532
<212> DNA
<213> Homo sapiens

<400> 596
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ttgagtaatt ccatgccttt tgacaagtgt tctgtaccca tgccacgacc accacaatcg 180
agagagaaca tcttcatcac tccagaaggg ctcctttgca gtgagtactc cctaggagtt 240
ccagcggccg gtgacattga tctgttttct gtcactgtag atgagatttg tctgttatat 300

acaattttta aaaattaaat gatatgtatg gcttcttttg cttagcataa tgtttttgag 360
cttattcatt tgttgcataat atcaatactt tgcttctttt taccacctgt acttcattta 420
tggatacggtt gtttatccat gtgtttatcc ccaatggaca ttgggttggt tctgattttt 480
tggttattat tatgaataaa gttgctatga acattattgt ataaaaaaaa aa 532

<210> 597

<211> 1494

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1483)

<223> n equals a,t,g, or c

<400> 597

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aaggggtacag ccggtgtcaa tggagagttc aaagacctaa gccttgatga ctttaagggg 180
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<210> 598

<211> 2188

<212> DNA

<213> Homo sapiens

<400> 598

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<210> 599

<211> 1273

<212> DNA

<213> Homo sapiens

<400> 599

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<210> 600

<211> 1239

<212> DNA

<213> Homo sapiens

<400> 600

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tgatttttaa aataaattta gtgaacctat ttttggtggt catttttttt ttaagacagt 420
cattttaaaa tgggtggtga atttcccaac ccaccccaa actaaacact aagttaatt 480
ttcagctcct ctgttgga caataagtga tctctgttg gacataggca aaataacttg 540
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<210> 601

<211> 1286

<212> DNA

<213> Homo sapiens

<400> 601

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taaagacagt agaaatatta ttcagtaaac aataatgtgt gaacttttaa gatggataat 420
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<210> 602

<211> 404

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<400> 602

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acattactga tagaggaagt cattagaatc atttttaagt ttcagatata ggagacttca 240
tgcaatttgg agataagact aattattggg ggttttcctt ggattttttt ttttaataact 300
gggggctatt ttatcagctt gcctattaaa ggactatggt aagtatagaa tcttaatggg 360
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<210> 603

<211> 1168

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1121)

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<220>

<221> misc feature

<222> (1122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1153)

<223> n equals a,t,g, or c

<400> 603

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ccccaggtcc agttcaaaact tgtattggtt ggtgatggtg gtactggaaa aacgaccttc 180
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gccggccagg agaaattcgg tggactgaga gatggctatt atatccaagc ccagtgtgcc 360
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aagctcattg gagaccctaa cttggaattt gttgccatgc ctgctctcgc cccaccagaa 660
gttgctcatg acccagcttt ggcagcacag tatgagcacg acttagaggt tgctcagaca 720
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aatattcagt ggtgaaatct tgttgttac tgcattccc attccttttc gtttagaatc 1080
agaataaagt tgtatttcaa atatctaaaa aaaaaaaaaa nngggggggs cgnccattcc 1140
ccaaaggggg gtnaaaaccc gggggggt 1168
```

<210> 604

<211> 458

<212> DNA

<213> Homo sapiens

<400> 604

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gatcgttaac tgaagacaat atgcaaaatt ctcacatgga tgaatacaga aattctagta 180
atggcagcac aggcaacagt tcagaggtag tggtagaaca tcctactgat ttcagtactg 240
agattatgaa cgttacagaa atggaacagt cacctgatga ctctcccaat gtgaatgcat 300
ctacagaaga aactgaaatg gcaagtgtg tggaccttcc agtgacgctg acagaaacag 360
aagcaatttc cctccagaat atgaaaaatt ttggaaaact gtagaaaata atcctcagggt 420
tttaaaggct gggtatatatt gcctcaatat gtagaaca 458
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<210> 605

<211> 911

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (897)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (904)

<223> n equals a,t,g, or c

<400> 605

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cgcncatagg g 911
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<210> 606

<211> 738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (737)

<223> n equals a,t,g, or c

<400> 606

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ggggccatga gcgcgcccc gcccagttc agcattgatg atgccttcga gctgtccctg 120
gaggacgggg gccctgggccc caggtccagc ggggtcgcgc gctttgggcc gctgcacttc 180
gagcgtcggg ccggttcga ggtggctgac gaggacaagc agtcccggct gcgctaccag 240
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aacctggaga acgatgagga tggagcccag gcctctccgg agccggatgg gggagtcggc 300
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gccctacttc gagaagtgat cgcggcgag cgtggacccc ttgcgccc at gggggcgccc 420
ctcttgccct gttccgttcc cctcatctca agggaagagg ccctccagga ccctcgaaac 480
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ccgcccgtcg cctgctctgt gccttaactt attctcgggc cgtgcggctg ctaggttgct 600
gttatTTTTgt gctaataaaa gagtaattaa ttccaaaaaa aaaaaaaaaa aaaaaaaaaa 660
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<210> 607

<211> 1348

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1328)

<223> n equals a,t,g, or c

<400> 607

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aaaaattnct cggccgacaa gggaattc 1348

<210> 608

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (690)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (703)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (718)
<223> n equals a,t,g, or c

<400> 608
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gattgtraat gtacywtctt aaacaactct tgaggtcacc aaacagtagt tatttgactg 240
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<210> 609
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<210> 610

<211> 1866

<212> DNA

<213> Homo sapiens

<400> 610

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<210> 611

<211> 2176

<212> DNA

<213> Homo sapiens

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<222> (2169)
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2176

<210> 612

<211> 3619

<212> DNA

<213> Homo sapiens

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<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<400> 612

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<211> 1427

<212> DNA

<213> Homo sapiens

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<222> (297)

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<400> 613

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<210> 614

<211> 1433

<212> DNA

<213> Homo sapiens

<400> 614

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<210> 615

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

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<210> 616

<211> 2174

<212> DNA

<213> Homo sapiens

<400> 616

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<211> 3147

<212> DNA

<213> Homo sapiens

<400> 617

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<210> 618

<211> 2529

<212> DNA

<213> Homo sapiens

<400> 618

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<210> 619

<211> 551

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<400> 619

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<210> 620

<211> 1735

<212> DNA

<213> Homo sapiens

<400> 620

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<210> 621

<211> 1026

<212> DNA

<213> Homo sapiens

<400> 621

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<211> 670

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<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (645)

<223> n equals a,t,g, or c

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<222> (649)

<223> n equals a,t,g, or c

<400> 622

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<210> 623

<211> 2163

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<400> 623

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<211> 601

<212> DNA

<213> Homo sapiens

<220>

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<222> (562)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (566)

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<222> (600)

<223> n equals a,t,g, or c

<400> 624

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gaaagaggtg atgaatggtg ctatccttca acaagtgtt gtggtggatt atgktgkccc 540
caaattggggg gagatggcat anaganaact aaggattctg gaaaggttgg attaaggggn 600
g 601

<210> 625

<211> 593

<212> DNA

<213> Homo sapiens

<400> 625

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<210> 626

<211> 2272

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2267)

<223> n equals a,t,g, or c

<400> 626

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tgattacttc cggtaccttg ctgaagtgtg gtgtgggtgat gatcgaanaa aaacgataga 600
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cagatgtaaa tgatatctgg ttaagtgtta tatggaataa agtggacatt ttaaaactar 2220
maaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanaaa ta 2272

<210> 627

<211> 871

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (863)

<223> n equals a,t,g, or c

<400> 627

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cggcggcggc ggacgagcgg agtccagagg acggagaaga cgaggagag gagggagcagt 180
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aatgcaagggt tttgggcatt gacactgaga ggccattctt gcaagtggac agctgtgtct 300
ttgctgggga gtatgaagac actctaggga cctgtgttat atttgaagaa aatgttgaac 360
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agctcagcat gacaagaact ctccctgacag agaagaagga aggagaagaa aacatagggtg 480

gggtggaatg gctgcaaata aaggataatg atttctccta tcgacccaac atgatttgta 540
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aattggaaga ggaagagatt caaatgaacg acagttcaaa cctgagttgt gaacaggaga 660
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aaggttctgt ttttatggaa actcaaatgc tgcccttagaa atcactccta gatgaaatgt 780
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<210> 628

<211> 779

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<400> 628

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gctgcggaat cgcgtcaccg accgctactt tcggatccag gaggtgctga agcacgccag 180
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taatcgaaat acagctgcta gccaggaaca tggactgaag tatccagcgc tcattgggaa 360
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gccaaagact ttcaaatctt tggctgcctt ggccagtagg aggcgacacg aaggatttgc 480
tgctgccttg ggggatggga aggaacctga aggcattttt tccagagtgg tgcagtacca 540
ctgaggactg ttgctgtatt gattaggaaa agagacagag taatttgag tttgtttgat 600
ttatactttt gtttatctac aaccaataa cagacatgag ggatggccct gtctctctgg 660
gacagagcct cacagatgat gtccatgttt tgtgtgaatg aaactcaaac actcttcaaa 720
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 779

<210> 629

<211> 1835

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1835)

<223> n equals a,t,g, or c

<400> 629

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ctggcccggg gcaccatgca ttgcaaygac aaagccaaag attcaataga tgctgggagt 360
aaggagcttc aggtgaagca gcagctggac agttgtgtga ccaagtgtgt ggatgaccac 420

atgcacctca tcccaactat gaccaagaag atgaaggagg ctctcttata aattggaaaa 480
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tggaattttt agtcttttaa gcaaagttaa cgaatgaaga aatgaaggat ggccacaagc 600
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aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaatn 1835

<210> 630

<211> 1097

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<400> 630

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ccccctcctt tttttttttt tttttttttt ctttttttag gcataatgtag taatattaga 180
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gttttaggggg aaaatgaaaa tctcccttaa aatttgtttc aactcctcct gcaataaaaa 1020
taaatagaagt ggcagatgta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa aaaaaaa 1097

<210> 631

<211> 1537

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<400> 631

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ggccgggggtg gctcggtttc ctggggctat gtaactgagc tcgctgactt aggggtcctt 120
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<210> 632

<211> 1901

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1566)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1894)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1899)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1900)

<223> n equals a,t,g, or c

<400> 632

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<210> 633
<211> 1750
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (809)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (821)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1676)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1689)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1712)
<223> n equals a,t,g, or c

<400> 633
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atccagactc ggaaccggaa gatgtccaac aagtccaaga agagcaagaa aggggaggag 180
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<210> 634

<211> 1926

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<400> 634

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<211> 1346

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1342)

<223> n equals a,t,g, or c

<400> 635

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<210> 636

<211> 1584

<212> DNA

<213> Homo sapiens

<400> 636

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<210> 637

<211> 1663

<212> DNA

<213> Homo sapiens

<400> 637

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<210> 638

<211> 3947

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (625)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3738)

<223> n equals a,t,g, or c

<400> 638

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<210> 639

<211> 1427

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

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<222> (29)

<223> n equals a,t,g, or c

<400> 639

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<210> 640

<211> 920

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (910)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (919)

<223> n equals a,t,g, or c

<400> 640

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<210> 641

<211> 1706

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1704)

<223> n equals a,t,g, or c

<400> 641

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ctgctgggca cccacggagc ctccggggct gccggcacag tcttacttac cgtagaagac 180
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caccgctggc tgaagggggg cgtgggtgctg aaggaggacg cgctgcccgg ccagaaaacg 300
gagttcaagg tggactccga cgaccagtgg ggagagtact cctgcgtctt cctccccgag 360
cccatgggca cggccaacat ccagctccac gggcctccca gagtgaaggc tgtgaagtcg 420
tcagaacaca tcaacgaggg ggagacggcc atgctggtct gcaagtcaga gtccgtgcca 480
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ggctccgaga gcaggttctt cgtgagttcc tcgcagggcc ggtcagagct acacattgag 600
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tccgaccagg ccatcatcac gctccgctg cgcagccacc tggccgccct ctggcccttc 720
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ggctctctat agcaccagg ctcacgtgg aacccccct ccacccaccg ccacaataaa 1620
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aaaaaaaaa aaaaamgggg ggnnc 1706

<210> 642

<211> 2170

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (811)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2170)

<223> n equals a,t,g, or c

<400> 642

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gtccaagtga ttgtccaggc tcggcttggg gaaaagattt gcactcgttc atcatcttct 120
ccaacgggtt cagattgggt caacttagca atcaaagaca tcccagaggt tacacatgaa 180
gcaaagaagg cactggcagg acagctgcct gcagtcggga ggtccatgtg tgtggagatt 240
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gaaaagtgtg ataaagaaat caaagtttcc tacacgggtg acaacagact gtcattgctg 360
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cccaccctg aaggtcggga gggctctgagc agccctgggt gctgcctgtg ctcaggtcct 2100
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gggccccggn
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2170

<210> 643

<211> 1712

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1664)

<223> n equals a,t,g, or c

<400> 643

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aacattgagt tcaagcccga atctcgagtg aatggtctag atgaaagcaa aatcaaagat 180
aaaaatgagt taaaagaaat ttgtgaattg accggcattg atcaatcagt tctagaacga 240
gcattcagtt tccgaacagt tgaggccaaa caggagaaaag tttcaactac actgaatgtg 300
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gagcaggagg agtatatacg ggaggwtata gaatggactc acattgacta cttcaataat 600
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ggttggaagg ctcgaaaaat tctgcgggaa ctgaagcatc aaaagcgctg taaggaagca 1620
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cttcagagcc aatgctggaa aagaaaatct at 1712
```

<210> 644

<211> 1793

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (790)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1731)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1793)

<223> n equals a,t,g, or c

<400> 644

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cagtgccgct tctgaatatg gaaaagcagc tgttgctttt aaaaatgcca aacagtttga 240
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gtgggtattt cttctatcta aaaaatacat acagtgactg tcttcaaac nacttggttc 1740
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<210> 645

<211> 2679

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
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<222> (24)
<223> n equals a,t,g, or c

<220>
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<222> (41)
<223> n equals a,t,g, or c

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<222> (124)
<223> n equals a,t,g, or c

<220>
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<222> (128)
<223> n equals a,t,g, or c

<400> 645
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tgantccnaa ascaaaccatc acctgtcttg tgtaacarcc caccgacggca cagagctccc 180
tggcccagtt acaatgatga agacatttac ctcttcaact cctctcacag tgatggggcc 240
cagtatgtta agagatacaa gggccacaga aataatgccca cagtaaaagg cgtcaatttc 300
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tggatgtatc aaggtaaaat tattgtcaaa gtttaaatac ctatatattc tctgaatgca 1680
ataaaggagc ttaagagtga acaagagtaa tgggtgaggaa gtgacacctg gggtcagttt 1740
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maaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2679
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<210> 646

<211> 832

<212> DNA

<213> Homo sapiens

<400> 646

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aataaaaata tttcagtagt ctttgcatca gcttaccttg taccagaaac atttccaatt 180
tactatcaaa ttatagtaac tgagcctgtg tgaagtatct catcattttc gaaaggaaca 240
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atgcatgaga cattgtagtc atatgtctgg tgtgacactt tggagcaaaa accttgacgt 780
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<210> 647

<211> 1325

<212> DNA

<213> Homo sapiens

<400> 647

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gcccgagac atcagcggct gcgattatgc tactcactgt tcggcacgga acagtcaggt 180
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ttaagggcat gaaagttgaa ttaagcacag taaatgtacg aacaacaaag cccccaaaa 420
gaagaccact taaaagtttg gaagctacac ttggcaggct tcgaagagct acagaatatg 480
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<211> 606

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<400> 648

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<211> 1696

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<400> 649

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<211> 3059

<212> DNA

<213> Homo sapiens

<400> 650

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<211> 1366

<212> DNA

<213> Homo sapiens

<400> 651

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<211> 1425

<212> DNA

<213> Homo sapiens

<400> 652

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<211> 614
<212> DNA
<213> Homo sapiens

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<222> (158)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<211> 1997

<212> DNA

<213> Homo sapiens

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cgtatatttc tgtacctgca gtgtagtaaa ggttttagac aaaccccata attatagtgg 1920
catactgtca cttagggtttc aagcagcaaa ataaacagtg cagctcagaa aaaaaaaaaa 1980
aaaaaaaaaa aaaaaaa 1997

<210> 656

<211> 1597

<212> DNA

<213> Homo sapiens

<400> 656

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ctcccggcgc acgccctccc gcgagtcctc ggccccctcc gcgccccctc tctcggcgcg 180
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cgacttttgc cgcagctcag gaagaatgtg tctgtgaaaa ctacaagctg gccgtaaaact 300
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tgaaaaactg atttgtgatt gaaagctgcc tttctattta cttgagtctt gtacatacat 1500
acttttttat gagctatgaa ataaaacatt ttaaactgaa aaaaaaaaaa aaaaaaaaaa 1560
agtcgacgcc aggaatttag tagtagtagt aggcggc 1597

<210> 657

<211> 372

<212> DNA

<213> Homo sapiens

<400> 657

gcttgccctc gcccgcaaca ccctcctgga ggatgctggt gagaggcagg gaccaggggt 60
cggctcccgg ctccgggcta tcgttaggcg ctggggcccc aggcctctcc tttgcagagt 120
ctcgtgcct ccctcgacgc agagccttca agcgccgcag tccccgacgg cttccccgcg 180
ggccccactg tctccccaag acgcctggcg aggcgcgcgg ggctggagga ggcgctgagc 240
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gggtcaagag aaaggcagaa gcacagtgtt ggagagtga ggcgccctgc cccaaacca 360
agttttccgc gt 372

<210> 658

<211> 1226

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1220)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1226)

<223> n equals a,t,g, or c

<400> 658

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ggaggaaagg ggtctgtaaa gcgggagaac aaggctagcc tccccctaac aatcctagac 120
tgagacgcag tcaggcgacac gccgcaagag gcggcgaggt gacaagtttg gaggcgcccc 180
ccttcagtac tgcgcgttct aagacttttg gcgggactt tcttgcaaaa acccattccc 240
caaagctacg cttccctgc tgagatagcc cctaccccca cctccacagg ctgggacagc 300
ccgtccccac catcctcctc ccaagccaat taaatgatca cagcacgcgt gacagttacc 360
ggctggagag ccaggtgngg accgggagca ggggaccgta gaaccgggac gcgctcctcc 420
cctcctagag ttcgtggagg cgcagcagag ggccgtccct cttccggatg tcggactaag 480

cgaacagcgc ccccaactgcc ggccggtagc agccgggaagt gccagaccgg aggtgcgtca 540
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gtgatttttg ctcttgctct gagaaataac agtgctgttt taaaaaacat ttgaaataaa 1140
taccgcacac aaaggcaaaa aaaaaaaaaag gsgggccggg tttagaagat ccaaagctta 1200
cgtacccgtg catgcaagn cattan 1226

<210> 659

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<400> 659

cagacgcacc tactatggga aaacntggaa ctgccngcg aggtacctgg tccggaattc 60
ccgggtcgac ccacgcgtcc gggcggtactg gggaggcggc ggcctggctc ggcctggcct 120
ggcctgtcag ggcgcgggag ggcggggtc cagcaccatg tccctgcagt acggggcgga 180
ggagacgccc ctgcgcggca gttacggcgc ggccgattcg tttccaaagg acttcggcta 240
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aggcggtggc tgtggtccgg gggcgctga cagctccaag ccgaggattc tgctcatggg 360
gactccggcg caggscaaat tcctccatcc agaaagtggg gtttccataa agatgttcaa 420
ccaacgagac cctctttttt tgggaaatta ccaaacaaga tttt 464

<210> 660

<211> 2549

<212> DNA

<213> Homo sapiens

<400> 660

gcaaagaatg tgagaggagac tccagtgggt tcaggatgac ctgcctaggg acagagaagc 60
caggggttacc actctgaggg ctggaggagc ccttggtaca aaagcaccat ctgtaacctc 120
tgagcagctg aacgtgtatg agcacagaac acaccttctt ttctccgtaa ctttatgcat 180
tacactgtcc ctctgctagg agtgcctgc cggcctctt tctaccttt acacctgtct 240
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ttcccatgt tcatagctgc ctttcttacc attttggtt gaagggcagt cttctctggc 360

ttgttttttt gtttttccca gaaaatcagt attatttttt aaataagaaa aacattccta 420
gaagatgawa attgtgaaaa cctccttttg cttatttgct tttccagatt ttagtctcct 480
ttctcccat cggggaaga tgggtggaaga cataggctaa atttctccag cctcacaatg 540
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gagtgtagag tgcagaaatg tggcttttgc ccactttgc atctccaaaa ttacaacggg 660
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actcgggcac atcctctgt ttctcttca gctctatcct gcttctctca tccctctga 2460
caccacgtcc tactcacct gcacaagaat ccctgcatca gggtctcctt tgagggtacc 2520
caccaggac agtcccctac cacttctgt 2549

<210> 661

<211> 1162

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1155)

<223> n equals a,t,g, or c

<400> 661

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gtgggctcgc gcgggcccgc ggcgtcgggc ggtgcggatg tcgggctggg cgacgagcg 120

cggcggcgag ggcgacgggc gcatctacgt ggggaacctt ccgaccgacg tgcgcgagaa 180
ggacttgag gacctgttct acaagtacgg ccgcatccgc gagatcgagc tcaagaaccg 240
gcacggcctc gtgcccttcg ccttcgtgcg cttcgaggac ccccgagatg cagaggatgc 300
tatttatgga agaaatggtt atgattatgg ccagtgtcgg cttcgtgtgg agtccccag 360
gacttatgga ggtcgggggtg ggtggccccg tgggtgggagg aatgggcctc ctacaagaag 420
atctgatttc cgagttcttg tttcaggact tcctccgtca ggcagctggc aggacctgaa 480
ggatcacatg cgagaagctg gggatgtctg ttatgctgat gtgcagaagg atggagtggg 540
gatggtcgag tatctcagaa aagaagacat ggaatatgcc ctgctgtaaac tggatgacac 600
caaattccgc tctcatgagg gtgaaacttc ctacatccga gtttatcctg agagaagcac 660
cagctatggc tactcacggc ctcggtctgg gtcaaggggc cgtgactctc cataccaaag 720
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gcccccaaaa ggggnccaag ct 1162

<210> 662

<211> 1178

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (978)

<223> n equals a,t,g, or c

<400> 662

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ccccgccgcc atccgcgagg gctggttccg cgagacctgc agcctgtggc ccggccaggc 120
cctgtcgcgtg caggtggagc agctgctcca ccaccggcgc tcgcgctacc aggacatcct 180
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ggagagagac gagtttctct accaggagat gatcgccaac ctgcctctct gcagccaccc 300
caaccgcgca aaggtgctga tcatcggggg cggagatgga ggtgtcctgc gggaggtggg 360
gaagcaccgcc tccgtggagt ccgtggtcca gtgtgagatc gacgaggatg tcatccaagt 420
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tgactcctca gaccccatgg gccccgccga aagtctcttc aaggagtcc attaccagct 600
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<210> 663
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (618)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (639)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (652)
<223> n equals a,t,g, or c

<400> 663
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gggtggtagg aacaatggcg ctgtcttaag tggcacagtg gagcagctct gaagatgcaa 120
agatacacga aaaaacttcc agaacatctg ggagaatatt taatggaaaa tcgcttggtt 180
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gggatattaa ttttgagta acataatttg aaagcctgga tgctaagttg agaaatgggg 720
gaatgagatc agaaattagg 740

<210> 664
<211> 1670
<212> DNA
<213> Homo sapiens

<400> 664

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caaccctgaa actcgtcctg ttgagaaaaa aataagatca gctcttccta ccaaaccgt 180
aaagcctgtg gaaaacaaag atgatgatga ctctatagct gattttctca atagtgatga 240
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aagcttattg ctcaatccac acctcaggca gttgatggtc aacctcgatc agggagaaga 360
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ctgttttaga attgtggagc catcccagaa tgaggagtct taagatggat tattgtgctg 480
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ctttaccggc attgatgtgg ctcatgtttc aggcagactt ggggtcctta aggtggcaag 660
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atggacaagt actagtattg ggggccacag caggrttaaa atagcattac atccactyag 1620
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<210> 665

<211> 3364

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (643)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (898)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1097)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1881)

<223> n equals a,t,g, or c

<400> 665

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<211> 1223

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (1123)

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<222> (1133)

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<221> misc feature

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<220>

<221> misc feature

<222> (1205)

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<210> 667

<211> 1997

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1974)

<223> n equals a,t,g, or c

<400> 667

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<210> 668

<211> 586

<212> DNA

<213> Homo sapiens

<400> 668

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<210> 669

<211> 1097

<212> DNA

<213> Homo sapiens

<400> 669

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<210> 670

<211> 2900

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (2418)

<223> n equals a,t,g, or c

<400> 670

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<210> 671

<211> 987

<212> DNA

<213> Homo sapiens

<400> 671

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<210> 672

<211> 2825

<212> DNA

<213> Homo sapiens

<400> 672

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2825

<210> 673

<211> 1430

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1046)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1409)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1413)

<223> n equals a,t,g, or c

<400> 673

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1430

<210> 674

<211> 1125

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1098)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1120)

<223> n equals a,t,g, or c

<400> 674

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<210> 675

<211> 1077

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<400> 675

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tgtccaccgg cgcttcctcc agttgctgat gacccatggc gtgctagagg aatgggacgt 180
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<210> 676

<211> 920

<212> DNA

<213> Homo sapiens

<400> 676

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aaaaaaaaa aaaaaaaaaa
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<210> 677

<211> 1247

<212> DNA

<213> Homo sapiens

<400> 677

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<210> 678

<211> 2667

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2602)

<223> n equals a,t,g, or c

<400> 678

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<210> 679

<211> 952

<212> DNA

<213> Homo sapiens

<400> 679

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<210> 680
<211> 2309
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<400> 680
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<210> 681
<211> 451
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

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<211> 1298
<212> DNA
<213> Homo sapiens

<220>
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<222> (1294)
<223> n equals a,t,g, or c

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<210> 683

<211> 859

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<400> 683

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<210> 684

<211> 1251

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1249)

<223> n equals a,t,g, or c

<400> 684

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<210> 685

<211> 2600

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1905)

<223> n equals a,t,g, or c

<400> 685

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<210> 686

<211> 4641

<212> DNA

<213> Homo sapiens

<400> 686

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<210> 687

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 687

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<210> 688

<211> 2751

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<400> 688

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<210> 689

<211> 969

<212> DNA

<213> Homo sapiens

<400> 689

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tgggcgacca gtacgtgaaa gacgaattta ggagacataa gaccgttggt tctgacgagg 180
cacagcgttt cttgcaagaa tgggaggtgt atgcaacagc gttattgcaa caggctaacg 240
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ttaatgactt tcgtgatgaa caaattggac agttgcagga gctgatgcaa gaagccacaa 360
aacccaatag gcaatttagt atttctgagt ctatgaaacc aaaattttag tctatacaac 420
aaagcttaat aagacatgca aaaatttaga acccctactt taactgtcat tggtttttga 480
aatatattta agctttgaaa acacctgtta ttaatgaaat actcttttat tttggatatt 540
atgattgcag tatatggatc aagatcacta gtgacaattg aaaaaaacta ttggaataat 600
agcacttgta taaaattcag ttttggaact aaacagcaaa tttctagaat tttgctgaaa 660
atgtttttaa atgctattct catccagcca tattagtctt ctggcttttc tttagcttca 720
tcaaataagc atgttgtgat aatgatagat gtacaattcc aacaaggtta ttatttttta 780
aatacattgt cattytgaac attttatcac ttctagttaa ataatacata catgattttt 840
cttctgaatg tctcttctcc ctgcatcact gttcattcac aatgaaagg taggaagaag 900
ctttaaaatt cactatttta ctatcaatca tttgtataat aaactatata aagtataaaa 960
aaaaaaaaa 969
```

<210> 690

<211> 979

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (943)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (945)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (957)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (959)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (969)

<223> n equals a,t,g, or c

<400> 690

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ctatccccga gcctggactg tctatcagct tcctggccag aatgtcaccg tcacctgccg 180
tcagatcaca cccatcttgc cccatgacta ccaggacagc agcctgcctg taggagtctt 240
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gcggaatgga ctgggtgggt gagacgatgc cccagggggt ttgtggaatg agcccttctg 360
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acccctacac gatggctgtg gctgcacgag tcacggcagc taccacggta acccacatca 480
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gcacagtgtg gctggaagtt cttgaggaca tccaggataa agntntcttc taccctnanc 960
ggggccaana agcctatga 979
```

<210> 691

<211> 693

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<400> 691

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tggacacagc cacagcaaca gagcaggcaa agcagctggg gaagtcagga gccatcagt 180
```

ccatcaaggc tgagaccaag aactcaggct tcaagcggtc tcgaaccctt gaggggaagt 240
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acagtgatga cgtctacaag gaaaaccttg tggatggctt ctagggaaca gagctggatt 480
ccttgtgcct catatgcccc aatgctggtc tcagtaaac actgagggtg aagcttacac 540
atctccctca gcctctggtt tttcagcact tgggattggg gttaaacctt taaaaacggc 600
tgtcagggtt gatctcagt taacaacatg gccagtgcct gttccccact cccttgcccc 660
aaaaggattt ggaacccaaa aaaaaaaaaa aaa 693

<210> 692

<211> 1382

<212> DNA

<213> Homo sapiens

<400> 692

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ttttggctat atcttcatgc tgggcttcat caccaggcct cctcacagat tcctgtccct 120
tctgtgtcct ggactccgga tacctcaact ctacgtactt tgtgctcagc ccaggcccag 180
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cagactgggt gcctgcctgg ctttcctgcc tgaggcattt gacttcattg cacgggaccc 360
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gcccactggg aggtgtttgt gcgggcccgt gctatcgaaa cccagtgtta tgtagtggca 840
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aa 1382

<210> 693

<211> 3098

<212> DNA

<213> Homo sapiens

<400> 693

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ttatatggct aaaatcatct tcagtaagaa ctctcttagg atatgaattt aagtgaaaat 180
ttactgtctt ttttttaaaa catgatgaaa cagtaatcta tagagcaatt tcattagtat 240

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<210> 694

<211> 489

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<400> 694

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tgtccatcca ggccagcagc tgaaggagcc tcacctgcct cccttctctg agtagcacgg 180
atttraggag aagcagcgaa gatgtccagc gagcctcccc ctcccttatcc tggggggcccc 240
acagccccac ttctggaaga gaaaagtgga gccccgcccc ccccaggccg ttccctcccca 300
gctgtgatgc agccccctcc aggcattgcca ctgccccctg cggacattgg cccccaccc 360
tatgagccgc cgggtcamcc aatgccccag cctggggttya tcccaccama catgagtnca 420
gatgggmact acatgcctcc ggggttttta cccttcttca ggggccccca cccacccttg 480
gggtaatta                                     489
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<210> 695

<211> 1844

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<400> 695

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cacagatgta aattaactca ccagatttac tgggcctgaa ctcatctctt tcttgctata 480
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accaaagttt gcaactcgaa ctgctttcgt ccatgtttct cacattgctg tattttagaa 840
aataggggtt aagactgata acaacctttt acattgtgac tgtgtttgca ttgtctaattg 900
acagataaat ccttaacatt tctctccacc ttagtacttt agactaattg tgtttgcctg 960
```

```

tccatgccat gaatgagtg gctgtagttg ggcctaaata aatgagctgt tggaagaaaa 1020
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acttgtttgc tatgactaca ttttgagggt ttgtaaaact gttatTTTTT tttttttcac 1740
aatgtgaaac tgaagggtcaa taaattatta gagattttct cttcaaaaaa aaaaaaaaaa 1800
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggg gggg . 1844

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<210> 696

<211> 605

<212> DNA

<213> Homo sapiens

<400> 696

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taggtgagtt atccaatata gcaaaggcca tcaaagagaa agccaatact ttcatggaga 180
gctcagagcc ttaatagatc ccagcagcaa tgcttcaacc attcccaact ccatgttcct 240
tgctagatgc tcctcacccc aaactcctgc aaatttcaag aatttctgtg tatgwtgtg 300
ttaagggagg agttttaaaag tatctctgta ttcaacaaga tacgtcagct tgtaagcagc 360
agaaacctac ttaaactakc ttacatgaga aaataacatt ataaagacat aggagtgttt 420
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aagtaggact tcaggcagct gcaccatcaa tctgtgtctt tctctcwggg actgtgggac 540
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acttt 605

```

<210> 697

<211> 540

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (114)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (489)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<400> 697

```
agggcacact agggacctac cgtacaacac ttcagcattg ttaagcactt aaccatttga 60
aaaaacttaa tgaaatgatt aatttttttt ttaattttac tgaaggatgt atnnatagat 120
ttaggaggga tatgagggtg actaaaaagt taaatttttc taatgtgaac ttttatttat 180
gttggttgt atcttacaat ttgtaatttt aaagtcattg taggccaatg raatgtgagc 240
gcctcaagaa tagctattaa gtatcatact aaatttggcg gacgtacaga tctgtgttac 300
aaagaaatgg aaaagtcatt cctgtgtcac ggggatgaaa agcctgctag ccattccaat 360
tgactgagra catcttgcaa agaaccacc ttacttctgc cggtagagcc ttgggcaaatt 420
taaagtcatt tcaaataaat ttagtagtaa gttcccttwt acmaatagtt atgtgtccac 480
acacgtgnng aatgttttat gggaactaat ggaagcgagc aaatcccaga aggntctctg 540
```

<210> 698

<211> 496

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (477)

<223> n equals a,t,g, or c

<400> 698

```
ggcagagggg agactcagct gatactgctt ccttgagatt taatacacct tcctttgatc 60
tctcctgtcc ccattatccc aggaaaatcc agagtagctt ccagtccatt ctcattaatc 120
cactggatcc aaagttaga gaggttcccc ttccctccag cctccttccct ggcccaacag 180
aggagcacc caccaccctc catcagctgc tcaaaaccca caagggaata atccctacag 240
gtccatgcc ggaggtagt gagctaccct ncaggttcca ttaagtcata ccagaaggct 300
gagtgtagaa atgaacatta agaggggttc catctgtagg gaaaggggtc aagatgcaaa 360
gctttacaga aggttctccg tctaattgtg aagattaaga gcactgggtg acctaggaag 420
atgaagaatg gagagtgggg aaaccagcag agattttcag gaatgtttta gggggcnttt 480
tcacgttttc aaagca 496
```

<210> 699

<211> 987

<212> DNA

<213> Homo sapiens

<400> 699

```
ggcacgagct caactgcaag gacgctgtaa gcaggaagag aagccacagc gcttcagaaa 60
agagtgggac agggacaagc atatctaaga ggctgaacat gaatccacag atcagaaacc 120
cgatgaaggc aatgtatcca ggcacattct acttccaatt taaaaaccta tgggaagcca 180
acgatcggaa cgaaacttgg ctgtgcttca ccgtggaagg tataaagcgc cgctcagttg 240
tctcctggaa gacgggcgtc ttccgaaacc aggtggattc tgagaccat tgatcatgcag 300
aaagggtgctt cctctcttgg ttctgcgacg acatactgtc tcctaacaca aagtaccagg 360
tcacctggta cacatcttgg agcccttgcc cagactgtgc aggggaggtg gccgagttcc 420
tggccaggca cagcaacgtg aatctcacca tcttcaccgc ccgcctctac tacttccagt 480
atccatgtta ccaggagggg ctccgcagcc tgagtcagga aggggtcgct gtggagatca 540
tggaactatga agattttaaa tattgttggg aaaactttgt gtacaatgat aatgagccat 600
tcaagccttg gaagggatta aaaaccaact ttcgacttct gaaaagaagg ctacgggaga 660
gtctccagtg aggggtctcc ctgggcctca tgggtctgtct cctctagcct cctgctcatg 720
ctgcacgggc ctcccctcca ccctggaccc gctctgtttc tgcctggtca tcctgagccc 780
ctcctggcct cagggccatt ccacagtgtc cccctgcctc accgcttctt cctcgctctt 840
ccagactctt cctgcagagg ctctttctg cctccatggc tatccatcca cccccacaga 900
ccccgttcct ccagcctgcg tgcccctaac ctggcttttc ccatctcccc agcataacca 960
aatcttacta aactcawsct aggtggg 987
```

<210> 700

<211> 1675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1616)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1635)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1659)

<223> n equals a,t,g, or c

<400> 700

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tggattaaag cgggtaagtg ctacagctgc ccacagaaat gctttacaga atcctaaaca 60
gggaggcacc cagttgaaaa cagaaaaaat acatatgttt ttgttagctc cmgtggcaac 120
agggatcaac agtcacaatg atagaggaag gggcattcaa ggaaccatta atgagcaatg 180
tgccctctct ctcaaaatca gggcaagcca tggcaccaag atgatgactc cagagggtgct 240
ggcagaggca tatggcaaga aagagtggaa gcacttcttg tcggacactg gaatggcttg 300
ccgctcagga aagtattact ttacgacaa ctactttgac ctgccaggag ctcttctgtg 360
tgccagggtg gtggactatt taacaaaact gaacaatggt caaaaaacat ttgatttttg 420
```

gaaggatata gttgctgcta tacaacacaa ttataaaatg tcagctttta aggaaaactg 480
tggaatatat tttccagaaa taaaaagaga tccaggcaga tatttacata gttgtcctga 540
atctgtgaaa aaatggcttc gacagctaaa gaatgctggg aaaattcttc tgtaattac 600
cagttctcac agtgattact gtagacttct ctgcgaatat attcttgga atgattttac 660
agaccttttt gacattgtga ttacaaatgc attgaagcct ggtttcttct cccacttacc 720
aagtcagaga ctttccgga cactcgagaa tgatgaggag caggaggcac tgccatctct 780
ggataaacct ggctggtact cccaaggga cgctgtccac ctctatgaac ttctgaagaa 840
aatgactggc aaacctgaac ccaagggtgt ttattttggg gacagcatgc attcagatat 900
tttcccagct cgtcactata gtaattggga gacagtcctc atcctggaag aactcagagg 960
ggatgaaggc acgaggagtc agaggcctga ggagtcagag cctctagaga agaaaggaaa 1020
atatgaggga ccaaaagcaa aacctttaaa tacttcatct aaaaaatggg gctctttttt 1080
tattgattca gttttgggac tggaaaatac agaagactcc ttggtttata catgggtcttg 1140
taagagaatc agtacttaca gactattgc aattccaagt attgaagcaa tcgcagaatt 1200
acctctggac taaaaattta caagattctc ttcaagcaat tcaaaaacag ctggctacta 1260
tccaaatcct cactggtct tatcaagtga tgagacactg atatccaaat aagttgtctt 1320
tactgaaaaa tgaagtgaag acccatatat gcagttaaaa aaaagttaat tttcaaaaaa 1380
tactgtaaaa gactttaagg aacaagtttt attgaccaat aagttgatat ttgtccatag 1440
gtctcctttc tataaatcat cttgatgttt aacaactctt attatattaa aatctcagta 1500
tcctaaaact taggaacctt attggatatt ttctattaca gtagttttgt gggtgggatt 1560
caccggggg ggccacacac tcacacggca cagttcactc tttacacata tggccncggg 1620
cccgtggggg tctcnaagg gtggttcctc tggggcctnt tgggcttggg ccttt 1675

<210> 701

<211> 556

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (505)

<223> n equals a,t,g, or c

<400> 701

ttaacccac agtctacttt tttttctggt gcagacctta agacaatgta gtaatacgtc 60
ttttaccat ccccaaata acagtgtaca cagtgtgttt tttccctta gtggagttag 120
cagtatgta gtgaggttag gtgagcatct agattgttc cacagaaaag ggtgtttcca 180
gccagtatca gtgatgttg tacttctcca acagtctaaa tctaagggtt ttaggagcct 240
gttygattaa gtgataagaa gataccctcg tctggtgttt ctttcagtgc tgcctcttca 300
tcttttagca gaaggcacia atgcctttta tttgctccgt ggtgaaaagc ttccagttct 360
caataggcac aggatgtcag tggccacagt tgggtgaagc ctgttcagag tcttctaatt 420
tgaaactgta gtggtgttta gtttataaag ctanaagaag aatctgtgga gggctctgga 480

ttgtatttgt gtggtgaaat tngtnacttt tagatgagga aagaaaacct ttgcttttgc 540
ccaaaacctg tgccag 556

<210> 702
<211> 1138
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1074)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1096)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1138)
<223> n equals a,t,g, or c

<400> 702
gccaaagcga gaatggggac ttagttcctg tcccctgagc ttcagagaac acaaaaacct 60
gaggcctcca gtggttttct gtggtcctcc agtgaggctg tcagcccctc agtcctcagc 120
cacttcctgg gctggggacc tcacagtttc ctgttctctg cttgaggccg ggcaaacgca 180
gcaccaactg ctccccacag gtgcacagcg tgggtctgtc agagcgggac ctgcagcggg 240
agatcaaggc ccagctggcc cagctgcccg attccgcgcc gggacccccg ccccgccac 300
aggtccgcct cgccggggcc caagccatct ttgaggccca gcagctggca ggagtgcgac 360
gaggcgccaa gcctgagggtg cctcggtatt tgggtgcagcc cccggaggag cccagaccac 420
cgcgggcgaa accccagacc cgcggaaga ctttccatgg gctcctgact cgggcccggg 480
gcccccccat cgagggggcc cccaggcccc aacgaggctc cacctccttc ctggacaccc 540
gcttctgaga ggaccatgga cttagtgtcc cccagtctca attgcctgat ggctgatgcc 600
agcccgcaa ataggcaccg cactttactc ttgggactcg gggacttggc ttccttctctg 660
gcaaggacca ggcagtgggg aaggaggagg tcctccgtgg tacatactgg gtcaggcact 720
agcatggagg agggtcacag agtggggcac gtgaggacc atggaaccgt cctggtgccc 780
agggcctcac aagtaccaa gccagacca aaggagttag ggaaggggtt ggctgagtca 840
agggaccca gagggcacca ggaataaaat cttcttgaac agaaaaaaa aaaaaaaagg 900
gcggccgctc tagaggatcc aagcttacgt acgcgtgcat gcgacgtcat agctcttcta 960
tagtgtcacc taaattcaat tcaactggcc tcgttttaca acgtcgtgac tgggaaaacc 1020
ctggcggttac ccaacttaat cgcttgcag cacatcccc ttcgccagc tggnttaata 1080
gcgaagaggc ccgcancggt tcgcccttcc cccacaattg cgccctggaa tgggcgan 1138

<210> 703
<211> 1062
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (1044)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<400> 703

```
cactgtgttg agggcacctc tctgtccctt ccgtgtctca ctgtctcttg aagcttcagc 60
ccatgtgtgt cctggtgttc ccagccccac cagagcccgt gccgggagct gacagctttc 120
acgcttaagg cacgtgtgac ctgggtagtc agacaccact tgagcccctg cccacatctg 180
ctggttttgg gcttcagtgg ggagctgaca gctgtgagca caccactgtc ccctcatcca 240
cctcggcctg catggggcac ccacttcctt ctgggtgggg cttccatggg aagggggcct 300
gogtccctgc aactgcgag gactgccttg cacaggccca ctccctacga cacgtgactc 360
gttttagagc tctgtcccag aggcgttcgt atgtgaccca cagatggcgt caatgtgaac 420
acctctcttt gtgtgaatt tctgggccat tcttttcctg tcttatttct aaatttcctt 480
cttccaagat gaaaacaaaa gaaaaactta aaacagaagg tattaacaaa acaagagatt 540
cccaccatta tttaggttca cctgcaraac aaaaatctta ctccarcccc tcaatgccat 600
cctgacacac tttatgcaaa aagaattttc ccagataggc tagccagaaa aaacttcaag 660
tcctctgtaa catctgaggt gaccaagagg cagaagagca gagcagtcgg gggccgtgtc 720
ctggctgac ccaactgcag ctctgctgtg ggggcccgtg ggagggaggc agacccttg 780
gctttcctgc tggccacgga gactctgctc ctgcatggaa agggagcctg ggagccagca 840
gcccacgcct ggggagcctg cctggggcca tgtgaccatg gcctctccct gggaacgggc 900
tgaccacaac acaccctgct gccatccact tctgtttact ctgcaaatgt aagaaagaac 960
cacttgacca gaagtgtccc ccagatgstt tttttttttt tttttgggag acagttttgc 1020
yyttgyttcc cggytgaggt gcantggcat ggatctaact nt 1062
```

<210> 704

<211> 865

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (685)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (831)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (847)

<223> n equals a,t,g, or c

<400> 704

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gagagaacta gtctcgagtt tgtttctctt atatgccac cattttttca tatatatatg 60
atttgatttt atatacatat atgtatacat attatatata aatatatatg tgtatacata 120
```

tatgtgtgta tatctatgaa tcaaacatac tgtttctggt ggagatgggt cagaattata 180
aagattatct gaatctttat ctgtgagcag tctccaagka agaagttgmr aggtgaagcc 240
tttgactgct gtcattgtct aggtcattcc aaggacatgg gagactgctg tccatgggtg 300
gatectctta acatcagcag agttctgtca agttacttag ctttctactgg ggcagctcta 360
gcattccatt aattcaaaat gktgtcctta atataagcct ctamcattta aaataaaaaat 420
tttaaatgta tccattaagg gaataattac atattgaatt cctaagaaat aagaattatt 480
tgggtgggtt tttctagata gaataaacac aagagctgga ctatattaac tgttggtatac 540
acttttttaa ctggcatttt yagttacttg tgatttttcc aggaaaaata aaaatgaatt 600
aaagtgaac agtggacttc taattgggtt tgtcttttga ttacatttga ccatcaacaa 660
tgatgtaagc cttggataga atgtngcccc tcagtgtccc acttaaaattt cttggtaaac 720
ctttgggtga tacacttcat tgtgcttttt ggaatgactc taaaagccca taaactaatg 780
ctttgcaaag cctaaataaa aatgggtgca gcctgtatta ggaaccactt nccttttatg 840
gtcctgnatg taaatagggg gtttt 865

<210> 705

<211> 1383

<212> DNA

<213> Homo sapiens

<400> 705

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ggtcctcgtc cagaccggcc accggagctt gacctcctgc atcgaccctt ccatgggact 120
taatgaagag cagaaagaat ttcaaaaagt ggcttttgac tttgtgtccc gagagatggc 180
tccaaatatg gcagagwggg accagaagca tgtgtgcctg gatgattgat agcttcggaa 240
atgaggaaca gaggcacaaa ttttgcccac cgctctgtac catggagaag tttgtcttct 300
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aacagggaga tcattacatc ctcaatggct ccaaggcctt catcagtggg gctgggtgagt 420
cagacatcta tgtgggtcatg tgccgaacag gaggaccagg cccaagggc atctcatgca 480
tagttgttga gaaggggacc cctggcctca gctttggcaa gaaggagaaa aaggtggggg 540
ggaactccca gccaacacga gctgtgatct tcgaagactg tgctgtccct gtggccaaca 600
gaattgggag cgaggggagc ggcttcctca ttgccgtgag aggactgaac ggagggagga 660
tcaatattgc ttctgtctcc ctgggggctg cccacgcctc tgctatcctc acccgagacc 720
acctcaatgt ccggaagcag tttggagagc ctctggccag taaccagtac ttgcaattca 780
cactggctga tatggcaaca aggtggtgg ccgcgcggct gatggtccgc aatgcagcag 840
tggctctgca ggaggagagg aaggatgcag tggccttgtg ctccatggcc aagctctttg 900
ctacagatga atgctttgcc atctgcaacc aggccttgca gatgcacggg ggctacggct 960
acctgaagga ttacgtgtt cagcagtacg tgcgggactc cagggtccac cagattctag 1020
aagagctgtt ctggcagggg cctggagtcc agagccgcag ctctcgtctt ttcggggggc 1080
ctcagattcc tctgctgctg cccttttctt ctggagatct gcgagaaggg tgaactgaga 1140
taatggatga gaaagcatgt tgaaaaccac agccggggct tttctctaag gttatcgagt 1200
acgtgggttct cagggatcca agaacagtga tggacaaggc aaatgtgagc cagtatggtc 1260
atcagtagct ctatattgat tatcagccag atggcctaaa agatacctgt ctcaatatta 1320
ctagtgtatt tttcaataaa ataaaccatc actaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaa 1383

<210> 706

<211> 1155

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<400> 706

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agaggaggaa caagaagatg aggaagaaat cgatgttggt tctgtggaaa agaggcaggc 120
tcctggcaaa aggtcagagt ctggatcacc ttctgctgga ggccacagca aacctcctca 180
cagcccactg gtcctcaaga ggtgccacgt ctccacacat cagcacaact acgcagcgcc 240
tccctccact cggaaggact atcctgctgc caagagggtc aagttggaca gtgtcagagt 300
cctgagacag atcagcaaca accgaaaatg caccagcccc aggtcctcgg acaccgagga 360
gaatgtcaag aggcgaacac acaacgtctt ggagcgccag aggaggaacg agctaaaacg 420
gagctttttt gccctgcgtg accagatccc ggagttggaa aacaatgaaa agggccccc 480
ggtagttatc cttaaaaaag ccacagcata catcctgtcc gtccaagcag aggagcaaaa 540
gctcatttct gaagaggact tgttgcggaa acgacgagaa cagttgaaac acaaacttga 600
acagctacgg aactcttggt cgtaaggaaa agtaaggaaa acgattcctt ctaacagaaa 660
tgtcctgagc aatcacctat gaacttggtt caaatgcatg atcaaatgca acctcacaac 720
cttggtgag tcttgagact gaaagattta gccataatgt aaactgcctc aaattggact 780
ttgggcataa aagaactttt ttatgcttac catctttttt ttttctttaa cagatttgta 840
tttaagaatt gtttttaaaa aattttaaga ttacacaaat gtttctctgt aaatattgcc 900
attaaatgta aataacttta ataaaacgtt tatagcagtt acacagaatt tcaatcctag 960
tatatagtac ctagtattat aggtactata aaccctaatt ttttttattt aagtacattt 1020
tgctttttta agttgatatt tttctattgt ttttagaaaa aataaaaataa ctggcaataa 1080
tatcattgag cmaaatctta aaaaaaaaaa aaaaaagggtc gagccggccg gctaattagt 1140
agtagtaggc gccgc 1155
```

<210> 707
<211> 1417
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (1378)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (1392)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (1399)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (1404)
<223> n equals a,t,g, or c

<400> 707

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tgagaccctg tctcaataat aataataata ataataatag taataatgaa gtaaatggga 60
taaggaaaga argataatta tctttaaaagg ttgattocca cctccctcc ccagttactt 120
aaggaaactaa gtgagtacat ctccagttgc ccatgaaagc ataagtttgt tttcctcagc 180
tgaggcaagt ggtagagtat acaggataac gaagtaacat gtaaaaggca ggacgcacat 240
aaaggtgtac atggctattg tttcacctgg agaaaccaca tgattgggac ctgaagggtt 300
actgactgac tacaggggct gattgtgaag cacgaggaac cccatgtgtg tggagactgt 360
aggggtgagag cacacaatta ttagcatcat ttctgagtga tctcacagat tttttttctt 420
gtgtttgttt tgctttttga caactgcttc tcccacgttc cttgcaattc tattctctca 480
ccttcacttt actatttgta ttcgatggac caggataatt caggcaaggt taccttgtaa 540
acttgaattg gccacacacc atgttgtcac ccagctggct atgaagtga taatggtact 600
gaaagtaaac ctgaagacct ttctcagatc tattttaagt ctgagtctga ccaaccatgg 660
aaaatattcg acatgaatta atgtagagaa ctataaagca tttatgacag ctccaagaaa 720
aatcatctac tctatgcagg agatatgttt agagacctct cagaaaaact tgcctgggtt 780
gagggtacac agtaccattt taatcttctg aaaatatctg tattcctgct ctttttctgc 840
tgtcactgtc aatctgctat atttttcact atcctattaa aatattactg tctcctttat 900
ctgttcaatg tccatatttt aaaaaaatct tccttgatg agctattctg atccaaataa 960
tttctctgat atttctctat atggctccca caacaatttc attgtgttta gcatatctat 1020
ttctccatac attgtaaaac tgtaatcctt aggtatttct aaaacataaa gaggagaatt 1080
aagtcagctg cagaacaatg gggctgawtc ytctgctttt tctctggaaa atctttcatt 1140
gcttttggtg gaaatttacc tagaggttac aaccacagga tgtagcttgg tctcttattt 1200
gccttttttg gaaaccaatt aagattaata caggataaag gaaaaaagca atctattcat 1260
tatataacac agttgtttgt attacttgtt ccctgcaaag gcaaatctgt tgaatgcttg 1320
cattttggaa ttcttttcta ataggaacaa ccaaaaaagg gcttcttatg ggtgcagncg 1380
ggaaaaaagg tncattttnt tggnttgcac tcttaac 1417
```

<210> 708

<211> 948

<212> DNA

<213> Homo sapiens

<400> 708

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ggtagacagt gtgtctcact aggggtgggtt atcagaaaaa ggctctacaa agtgacattt 60
aaagactgag aggaaaggag agagttgtat cctaccaatg attgcctccc ctctcccaca 120
tattaatgta ttacttaaag gaactgattt tttaaaattg gattgaatca tggaaacatt 180
ctttgagaat atggaaataa tttaatatTT ttcccgttcc cagctcttca gctgtaacag 240
tgactcaaaa tcaattacat taagattagt ttttttgty tggttttttt ttttaagwact 300
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<210> 709

<211> 1329

<212> DNA

<213> Homo sapiens

<400> 709

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<210> 710

<211> 534

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<400> 710

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aagcatgggt caggcacaaa gtaagccac cccaccagga actatgttga aaaatttcaa 180
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gaacagcagc ataagcagct ggcagaggca aggaaagacc agcaaagaga cagagaagaa 480
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<210> 711

<211> 1143

<212> DNA

<213> Homo sapiens

<220>

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<222> (14)

<223> n equals a,t,g, or c

<220>

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<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1110)

<223> n equals a,t,g, or c

<400> 711

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<210> 712

<211> 3779

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (3758)

<223> n equals a,t,g, or c

<400> 712

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<210> 713

<211> 1036

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1017)

<223> n equals a,t,g, or c

<400> 713

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<211> 4443

<212> DNA

<213> Homo sapiens

<400> 714

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<210> 715

<211> 2099

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2096)

<223> n equals a,t,g, or c

<400> 715

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gccagatctt tgtatgtctt aagtgtttca aagttataag catttttctg gggggatgtc 1980
cattttggag ggatccattt tgatcctttg tactctataa tgtgaacttt cccctgttcc 2040
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```

<210> 716

<211> 574

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (507)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<400> 716

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gtagccctat tgcgagatgg tattgaactg gttgtagcca gtgttggggg acagccgggg 480
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gaaaagntgg aaaaaggaaa ggtccaagga atgt 574
```

<210> 717

<211> 847

<212> DNA

<213> Homo sapiens

<400> 717

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tcgtcctctt caccaaggag ctgagccggc ggctgcaagg tacgggggcg ctaggctcgg 780
cctccctctt gctttactct gagcctagag cggcctttcc atgacatcag gcttgggaatt 840
gggggggg 847
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<210> 718

<211> 2086

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1863)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1913)

<223> n equals a,t,g, or c

<400> 718

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```

<210> 719

<211> 2418

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2200)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2347)

<223> n equals a,t,g, or c

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<222> (2384)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2401)

<223> n equals a,t,g, or c

<400> 719

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caaatagacc atgtcagctt caccctctgg ctttgtgtct atgggtggcc tgtggtatat 720
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<210> 720

<211> 2541

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1209)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2538)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2540)

<223> n equals a,t,g, or c

<400> 720

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2541

<210> 721

<211> 2171

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1996)

<223> n equals a,t,g, or c

<400> 721

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<210> 722

<211> 1888

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (787)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1875)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1878)

<223> n equals a,t,g, or c

<400> 722

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aaaaaaaaa aaccncngng ggggcccc 1888

<210> 723

<211> 980

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (968)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (972)

<223> n equals a,t,g, or c

<400> 723

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<210> 724

<211> 1812

<212> DNA

<213> Homo sapiens

<400> 724

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<210> 725

<211> 974

<212> DNA

<213> Homo sapiens

<400> 725

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974

<210> 726

<211> 1508

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<400> 726

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<210> 727

<211> 2004

<212> DNA

<213> Homo sapiens

<400> 727

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<210> 728

<211> 1470

<212> DNA

<213> Homo sapiens

<400> 728

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<210> 729

<211> 1755

<212> DNA

<213> Homo sapiens

<400> 729

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<210> 730

<211> 437

<212> DNA

<213> Homo sapiens

<400> 730

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tgtgaaaaca gaaggttgtt ccaccgagat tcacatccag attggacagt ttgtgttgat 360
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<210> 731

<211> 3663

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3601)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3648)

<223> n equals a,t,g, or c

<400> 731

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ataccatcaa tggtcataat gcagaagtaa gaaaggcttt gtctagacaa gaaatgcagg 180

aagttcagag ttctaggagt ggaagaggag gcaacttttg ctttggggat tcacgtggtg 240
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tta 3663

<210> 732

<211> 2017

<212> DNA

<213> Homo sapiens

<400> 732

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ctcgtcgccg tggcgccatg ggtgtgtgcc gcagccgcag gtggaaaaaa tctaaaatct 180
cctcaaaaag tagaggtcga catcatagat gacaacttta tcctgaggtg gaacaggagc 240
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tgataaaaat tgtctgggtg tcagaatatt actagtacca aatgcaactt ttcttcactc 360
aagctgaatg tttatgaaga aattaaattg cgtataagag cagaaaaaga aaacacttct 420
tcattggtatg aggttgactc atttacacca tttcgcaaag ctcagattgg tcctccagaa 480
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agtgttatgt gggcttttga tgggtttaagc tttacatata gcttasttat ctggaaaaac 600
tcttcagggtg tagaagaaag gattgaaaat atttattcca gacataaaat ttataaactc 660
tcaccagaga ctacttattg tctaaaagt aaagcagcac tacttacgtc atggaaaatt 720
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gaaaatatag aagtcagtgt ccaaaatcag aactatgttc ttaaatggga ttatacatat 840
gcaaacatga cctttcaagt tcagtggctc cagcctttt taaaaaggaa tcctggaaac 900
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tgttttaggga aagaaaaaac atcttcagat cataggtcct aaaaatacgg gcaagctctt 1920
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gaggctgagg aggcagacat gaggtcagag atcgaga 2017

<210> 733

<211> 2004
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2001)
<223> n equals a,t,g, or c

<400> 733
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tcataaccat gtccaccaac gagaatgcta atacaccagc tgcccgtctt cacagattca 180
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atgatgctac ttctccgctg caggaaaacc gcaacaacca gggcactgta aattgggtctg 360
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tacatacata ctgtatgaag cttgtcctct gactaggttt ctaatttcta tgtggaattt 1920
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aaaaaaaaa aaaaaagggg nggc 2004

<210> 734
<211> 1128
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (1105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1117)
<223> n equals a,t,g, or c

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tgacgagctt ttctctactt gtgtcactaa cggaccgttt atcatgagca gcaactcggc 180
ttctgcagca aacggaaatg acagcaagaa gttcaaagggt gacagccgaa gtgcaggcgt 240
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<210> 735
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (661)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (693)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (699)
<223> n equals a,t,g, or c

<220>